

10/549,852      Yong Chu      05/15/2009    X= S or CH2

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PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*

SESSION RESUMED IN FILE 'HOME' AT 18:03:50 ON 14 MAY 2009

FILE 'HOME' ENTERED AT 18:03:50 ON 14 MAY 2009

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.44	0.44

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.44	0.44

FILE 'REGISTRY' ENTERED AT 18:04:04 ON 14 MAY 2009

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STRUCTURE FILE UPDATES:    13 MAY 2009    HIGHEST RN 1146612-21-6

DICTIONARY FILE UPDATES:    13 MAY 2009    HIGHEST RN 1146612-21-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

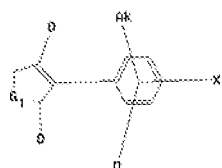
REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

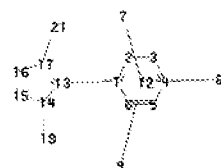
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Settings\ychu\Desktop\Case\10549074\10549074D\_05142009.str



C



22

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chain nodes :
7 8 9 19 21 22
ring nodes :
1 2 3 4 5 6 13 14 15 16 17
chain bonds :
1-13 14-19 17-21
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-17 14-15 15-16 16-17
exact/norm bonds :
1-13 13-14 13-17 14-15 14-19 15-16 16-17 17-21
normalized bonds :
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G1:O,N

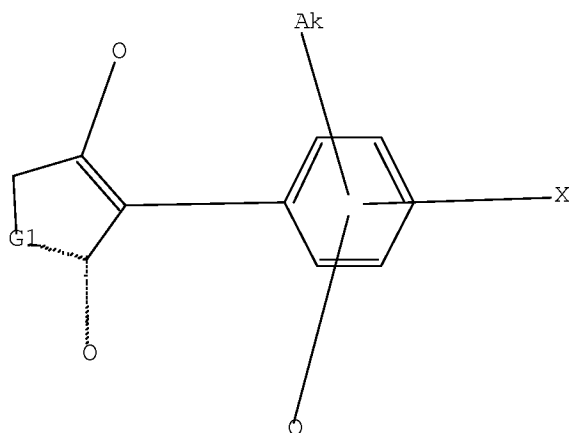
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19:1 E exact RC ring/chain
Match level :
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11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 19:CLASS 21:CLASS
22:CLASS
Generic attributes :
7:
Saturation : Saturated
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L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 18:04:26 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 774 TO ITERATE

100.0% PROCESSED 774 ITERATIONS

9 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 13811 TO 17149

PROJECTED ANSWERS: 9 TO 360

L2 9 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 18:04:33 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 15814 TO ITERATE

100.0% PROCESSED 15814 ITERATIONS

144 ANSWERS

SEARCH TIME: 00.00.01

L3 144 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

185.88

186.32

FILE 'CAPLUS' ENTERED AT 18:04:39 ON 14 MAY 2009

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 14 May 2009 VOL 150 ISS 20  
FILE LAST UPDATED: 13 May 2009 (20090513/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate

=> s 13

L4 20 L3

=> d ibib abs hitstr tot

THE ESTIMATED COST FOR THIS REQUEST IS 112.80 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L4 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:523240 CAPLUS Full-text

TITLE: Herbicide combinations of  
iodo[(methoxymethyltriazinyl)carbamoyl]benzenesulfonam  
ide or salts and diketones

INVENTOR(S): Hacker, Erwin; Waldruff, Christian; Schreiber,  
Dominique; Hills, Martin; Feucht, Dieter; Mueller,  
Klaus-Helmut; Gesing, R. F. ERNST; Bonfig-Picard,  
Georg

PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany

SOURCE: PCT Int. Appl., 62pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2009053053	A2	20090430	WO 2008-EP8942	20081022
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,			

AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 EP 2052605 A1 20090429 EP 2007-20809 20071024  
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR,  
 AL, BA, HR, MK, RS

PRIORITY APPLN. INFO.: EP 2007-20809 A 20071024

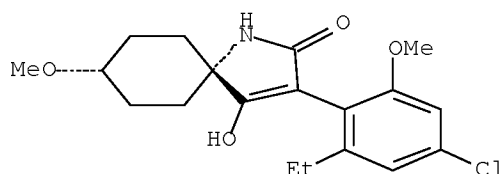
AB Combinations of .gtoreq.1 herbicide selected from 2-iodo-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)carbamoyl]benzenesulfonamide or salts thereof and .gtoreq.1 1,3-diketone selected from prohexadione-calcium, trinexapac-Et, alloxydim, butoxydim, clethodim, cycloxydim, profoxydim, sethoxydim, tepraloxym, tralkoxydim, mesotrione, sulcotrione, tefuryltrione, tembotrione, 3-[[2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)pyridin-3-yl]carbonyl]bicyclo[3.2.1]octane-2,4-dione, and pinoxaden are applied jointly or sep. as preemergence or postemergence herbicides to control weeds selectively in crops such as wheat, corn, soybean, etc. and in pasture, grassland, and turf. The combinations showed synergistic effects against a broad spectrum of weeds at .ltoreq.100 g/ha.

IT 760209-98-1 760210-00-2 1095082-34-0  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (herbicidal combinations of  
 iodo[(methoxymethyltriazinyl)carbamoyl]benzenesulfonamides and  
 diketones)

RN 760209-98-1 CAPLUS

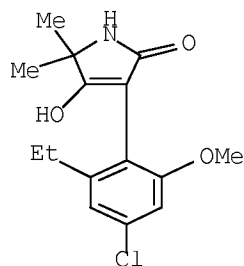
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-methoxy-, (5.alpha.,8.alpha.)- (CA INDEX NAME)

Relative stereochemistry.



RN 760210-00-2 CAPLUS

CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)

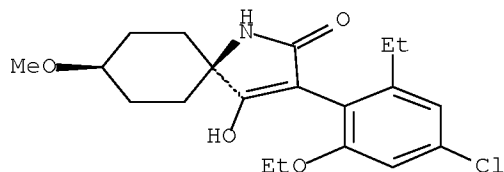


RN 1095082-34-0 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-

hydroxy-8-methoxy-, cis- (CA INDEX NAME)

Relative stereochemistry.



L4 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2009:422139 CAPLUS Full-text  
DOCUMENT NUMBER: 150:398351  
TITLE: Preparation of of spirocyclic phenylpyrrolidinediones  
as herbicides  
INVENTOR(S): Die, Erfindernennung Liegt Noch Nicht Vor  
PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany  
SOURCE: Eur. Pat. Appl., 101pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 2045240	A1	20090408	EP 2007-117104	20070925
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
WO 2009039975	A1	20090402	WO 2008-EP7517	20080912
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			EP 2007-117104	A 20070925
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [M = (CH<sub>2</sub>)<sub>m</sub>; m = 0-1; W = H, alkyl, alkenyl, etc.; X = halo, alkyl, alkenyl, etc.; Y, Z = H, alkyl, alkenyl, etc.; A = haloalkoxy, halocycloalkyl, etc.; D = NH, O; Q1, Q2 = H, alkyl, haloalkyl, etc.; G = COR1,

SO2R3, etc.; R1 = alkyl, alkenyl, alkoxyalkyl, etc.; R3 = alkyl, alkenyl, alkoxyalkyl, etc.] were prepd. For example, intramol. Claisen condensation of Me ester II, afforded pyrrolidinedione III in 80% yield. In a Myzus persicae protection assays, compds. I exhibited .gtoreq. 80% protection protection after 6 days. Compds. I are claimed to be useful as herbicides.

IT 1138243-60-3P 1138243-70-5P 1138243-71-6P  
1138243-78-3P 1138243-79-4P 1138243-91-0P

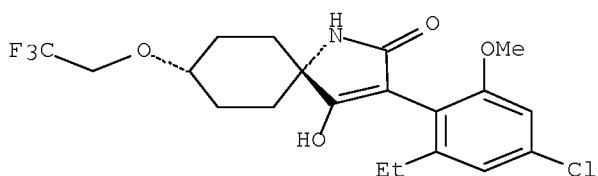
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of spirocyclic phenylpyrrolidinediones as herbicides)

RN 1138243-60-3 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-(2,2,2-trifluoroethoxy)-, cis- (CA INDEX NAME)

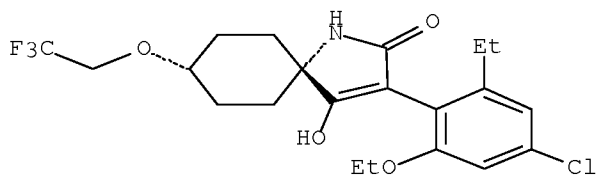
Relative stereochemistry.



RN 1138243-70-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-(2,2,2-trifluoroethoxy)-, cis- (CA INDEX NAME)

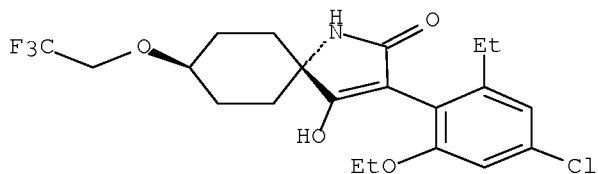
Relative stereochemistry.



RN 1138243-71-6 CAPLUS

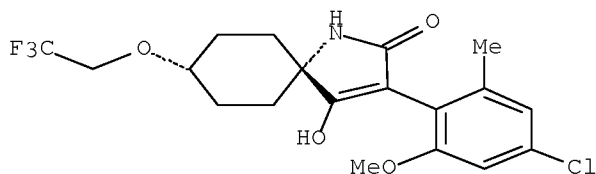
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-(2,2,2-trifluoroethoxy)-, trans- (CA INDEX NAME)

Relative stereochemistry.



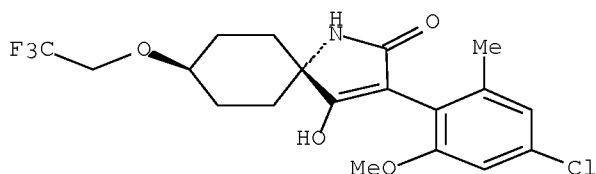
RN 1138243-78-3 CAPLUS  
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-methoxy-6-methylphenyl)-4-hydroxy-8-(2,2,2-trifluoroethoxy)-, cis- (CA INDEX NAME)

Relative stereochemistry.



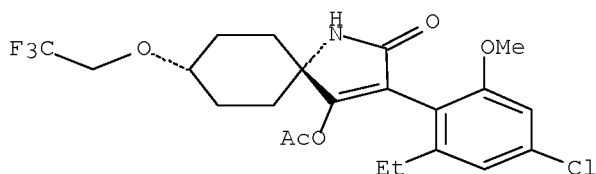
RN 1138243-79-4 CAPLUS  
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-methoxy-6-methylphenyl)-4-hydroxy-8-(2,2,2-trifluoroethoxy)-, trans- (CA INDEX NAME)

Relative stereochemistry.



RN 1138243-91-0 CAPLUS  
CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-(2,2,2-trifluoroethoxy)-, cis- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2009:384326 CAPLUS Full-text  
DOCUMENT NUMBER: 150:398349  
TITLE: Preparation of of spirocyclic phenylpyrrolidinediones as herbicides  
INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Lehr, Stefan; Arnold, Christian; Dittgen, Jan; Feucht, Dieter; Kehne, Heinz; Malsam, Olga; Rosinger, Christopher



PATENT ASSIGNEE(S): Hugh; Franken, Eva-Maria; Goergens, Ulrich  
 SOURCE: Bayer Cropscience A.-G., Germany  
 PCT Int. Appl., 175pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009039975	A1	20090402	WO 2008-EP7517	20080912
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 2045240	A1	20090408	EP 2007-117104	20070925
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS			

PRIORITY APPLN. INFO.: EP 2007-117104 A 20070925  
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\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [M = (CH<sub>2</sub>)<sub>m</sub>; m = 0-1; W = H, alkyl, alkenyl, etc.; X = halo, alkyl, alkenyl, etc.; Y, Z = H, alkyl, alkenyl, etc.; A = haloalkoxy, halocycloalkyl, etc.; D = NH, O; Q1, Q2 = H, alkyl, haloalkyl, etc.; G = COR<sub>1</sub>, SO<sub>2</sub>R<sub>3</sub>, etc.; R1 = alkyl, alkenyl, alkoxyalkyl, etc.; R3 = alkyl, alkenyl, alkoxyalkyl, etc.] were prepd. For example, intramol. Claisen condensation of Me ester II, afforded pyrrolidinedione III in 80% yield. In a Myzus persicae protection assays, compds. I exhibited .gtoreq. 80% protection protection after 6 days. Compds. I are claimed to be useful as herbicides.

IT 1138243-60-3P 1138243-70-5P 1138243-71-6P  
 1138243-78-3P 1138243-79-4P 1138243-91-0P

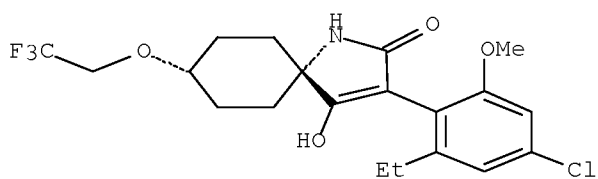
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of spirocyclic phenylpyrrolidinediones as herbicides)

RN 1138243-60-3 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-(2,2,2-trifluoroethoxy)-, cis- (CA INDEX NAME)

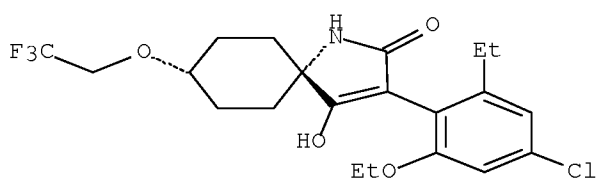
Relative stereochemistry.



RN 1138243-70-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-(2,2,2-trifluoroethoxy)-, cis- (CA INDEX NAME)

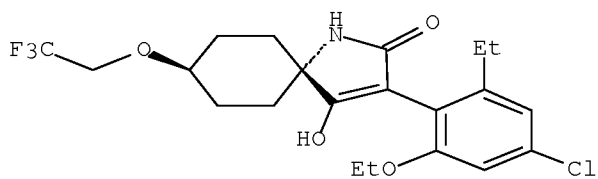
Relative stereochemistry.



RN 1138243-71-6 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-(2,2,2-trifluoroethoxy)-, trans- (CA INDEX NAME)

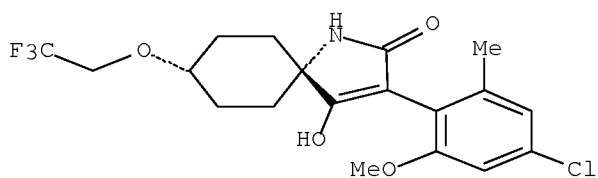
Relative stereochemistry.



RN 1138243-78-3 CAPLUS

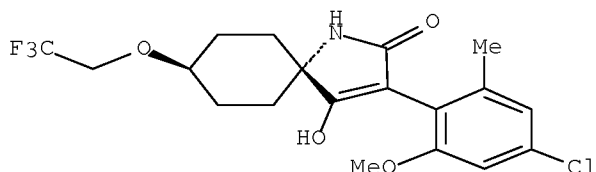
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-methoxy-6-methylphenyl)-4-hydroxy-8-(2,2,2-trifluoroethoxy)-, cis- (CA INDEX NAME)

Relative stereochemistry.



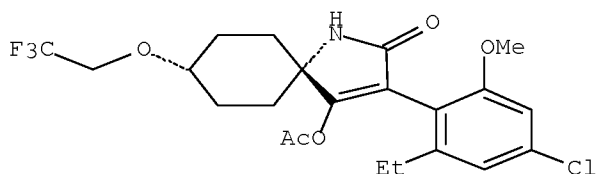
RN 1138243-79-4 CAPLUS  
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-methoxy-6-methylphenyl)-4-hydroxy-8-(2,2,2-trifluoroethoxy)-, trans- (CA INDEX NAME)

Relative stereochemistry.



RN 1138243-91-0 CAPLUS  
CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-(2,2,2-trifluoroethoxy)-, cis- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

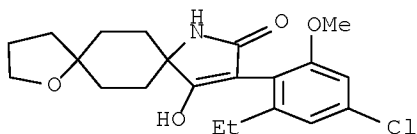
L4 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2009:139163 CAPLUS Full-text  
DOCUMENT NUMBER: 150:214157  
TITLE: Preparation of biphenylene tetramic acids as agrochemical herbicides  
INVENTOR(S): Bretschneider, Thomas; Fischer, Reiner; Lange, Gudrun; Lehr, Stefan; Arnold, Christian; Feucht, Dieter; Franken, Eva-Maria; Hills, Martin Jeffrey; Kehne, Heinz; Malsam, Olga; Rosinger, Christopher Hugh; Dittgen, Jan; Goergens, Ulrich; Haeuser-Hahn, Isolde  
PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany  
SOURCE: PCT Int. Appl., 190pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009015801	A1	20090205	WO 2008-EP5973	20080722
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,				

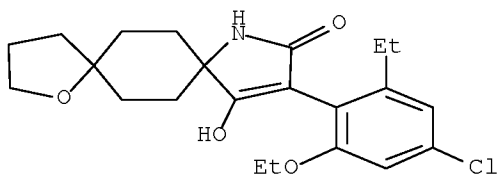
KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,  
 ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,  
 PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,  
 TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,  
 IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK,  
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,  
 TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,  
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 EP 2020413 A1 20090204 EP 2007-113674 20070802  
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR,  
 AL, BA, HR, MK, RS  
 PRIORITY APPLN. INFO.: EP 2007-113674 A 20070802  
 OTHER SOURCE(S): MARPAT 150:214157  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

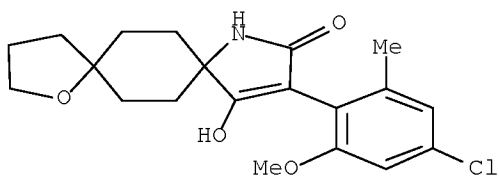
AB Title compds. I [W = H, alkyl, alkenyl, etc.; X = halo, alkyl, alkenyl, etc.;  
 Y, Z = H, alkyl, alkenyl, etc.; A, B = alkyl, haloalkyl, alkoxy, etc.; D = NH,  
 O; Q1, Q2 = H, alkyl, haloalkyl, etc.; G = H, COR1, SO2R3, etc.; R1 = alkyl,  
 alkenyl, alkoxyalkyl, etc.; R3 = alkyl, alkoxy, alkylamino, etc.] were prepd.  
 For example, Pd(II) mediated coupling of aryl bromide II and 3-chloro-4-  
 fluorophenylboronic acid afforded biphenylene III in 37% yield. In  
 echinocloa crus galli protection assays, 25-examples of compds. I exhibited  
 .gtoreq. 805 after 3-wk.  
 IT 1111685-03-0P 1112392-14-9P 1112392-32-1P  
 1113061-99-6P 1113062-00-2P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN  
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (prepn. of biphenyltetramic acids as agrochem. herbicides)  
 RN 1111685-03-0 CAPLUS  
 CN 1-Oxa-9-azadispiro[4.2.4.2]tetradec-11-en-10-one,  
 11-(4-chloro-2-ethyl-6-methoxyphenyl)-12-hydroxy- (CA INDEX NAME)



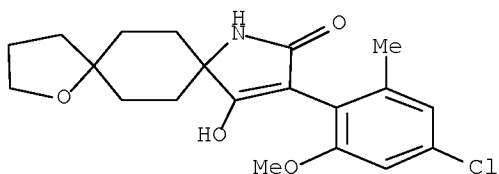
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 11-(4-chloro-2-ethoxy-6-ethylphenyl)-12-hydroxy-, cis- (CA INDEX NAME)



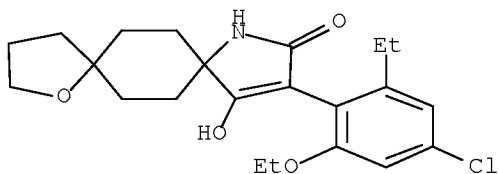
RN 1112392-32-1 CAPLUS  
 CN 1-Oxa-9-azadispiro[4.2.4.2]tetradec-11-en-10-one,  
 11-(4-chloro-2-methoxy-6-methylphenyl)-12-hydroxy-, cis- (CA INDEX NAME)



RN 1113061-99-6 CAPLUS  
 CN 1-Oxa-9-azadispiro[4.2.4.2]tetradec-11-en-10-one,  
 11-(4-chloro-2-methoxy-6-methylphenyl)-12-hydroxy-, trans- (CA INDEX NAME)



RN 1113062-00-2 CAPLUS  
 CN 1-Oxa-9-azadispiro[4.2.4.2]tetradec-11-en-10-one,  
 11-(4-chloro-2-ethoxy-6-ethylphenyl)-12-hydroxy-, trans- (CA INDEX NAME)

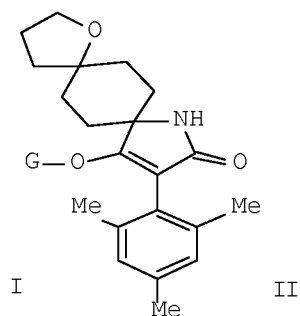
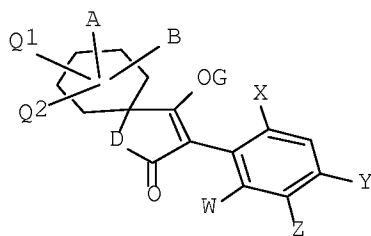


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2009:132095 CAPLUS Full-text  
 DOCUMENT NUMBER: 150:214156  
 TITLE: Preparation of phenyltetramic acids as agrochemical herbicides  
 PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany  
 SOURCE: Eur. Pat. Appl., 102pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 2020413	A1	20090204	EP 2007-113674	20070802
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
WO 2009015801	A1	20090205	WO 2008-EP5973	20080722
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			EP 2007-113674	A 20070802

GI



AB Title compds. I [W = H, alkyl, alkenyl, etc.; X = halo, alkyl, alkenyl, etc.; Y, Z = H, alkyl, alkenyl, etc.; A, B = alkyl, haloalkyl, alkoxy, etc.; D = NH, O; Q1, Q2 = H, alkyl, haloalkyl, etc.; G = H, COR1, SO2R3, etc.; R1 = alkyl, alkenyl, alkoxyalkyl, etc.; R3 = alkyl, alkoxy, alkylamino, etc.] were prepd. For example, isobutyric acid chloride mediated O-acylation of alc. II [B = H]

afforded ester II [B = C(O)CH(Me)2] in 70% yield. In echinochloa crus galli protection assays, 6-examples of compds. I exhibited .gtoreq. 805 after 3-wk.

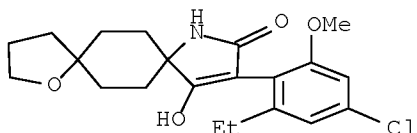
IT 1111685-03-0P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of phenyltetramic acids as agrochem. herbicides)

RN 1111685-03-0 CAPLUS

CN 1-Oxa-9-azadispiro[4.2.4.2]tetradec-11-en-10-one,  
11-(4-chloro-2-ethyl-6-methoxyphenyl)-12-hydroxy- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:55597 CAPLUS Full-text

DOCUMENT NUMBER: 150:115797

TITLE: Herbicide combinations with 3-(2-alkoxy  
4-chloro-6-alkyl-phenyl)-substituted tetramates

INVENTOR(S): Hacker, Erwin; Hess, Martin; Angermann, Alfred;  
Schreiber, Dominique; Huff, Hans Philipp; Bickers, Udo

PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany

SOURCE: PCT Int. Appl., 69pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

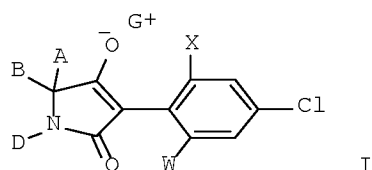
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009007013	A1	20090115	WO 2008-EP5185	20080626
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 2014170	A1	20090114	EP 2007-112053	20070709
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS			

PRIORITY APPLN. INFO.: EP 2007-112053 A 20070709

OTHER SOURCE(S): MARPAT 150:115797

GI



AB Herbicide combinations contain title compds. (I; W = Me, Et; X = MeO, EtO; G = Li, Na, K; A = C1-4 alkyl, cyclopropyl; B = Me or A and B together form part of a ring; D = H or A and D together form a C3-4 alkylidene) and .gtoreq.1 addnl. component selected from branched amino acid biosynthesis inhibitors, photosynthetic electron transport inhibitors, synthetic auxins, inhibitors of fatty acid and(or) carotenoid biosynthesis, cell division inhibitors, hydroxyphenylpyruvate dioxygenase inhibitors, protoporphyrinogen oxidase inhibitors, microtubule assembly inhibitors, cellulose formation inhibitors, and other herbicides such as diquat. The combinations may contain a safener. Thus, cis-I (W = Et; X = EtO; A, B together form (CH<sub>2</sub>)<sub>2</sub>CH(OMe)(CH<sub>2</sub>)<sub>2</sub>; D = H; G = Na+) + glufosinate at 250 + 5 g/ha synergistically controlled *Chenopodium album*.

IT 1096004-88-4 1097904-86-3 1097904-89-6  
 1097904-90-9 1097904-93-2 1097904-96-5  
 1097904-98-7 1097905-01-5 1097905-03-7  
 1097905-05-9 1097905-07-1 1097905-08-2  
 1097905-10-6 1097905-14-0

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (as synergistic herbicide)

RN 1096004-88-4 CAPLUS

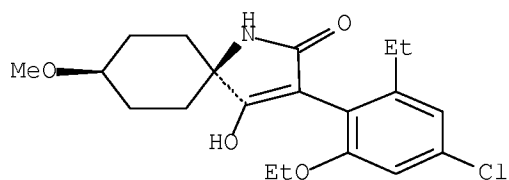
CN Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.



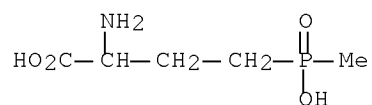
● Na



CM 2

CRN 51276-47-2

CMF C5 H12 N O4 P



RN 1097904-86-3 CAPLUS

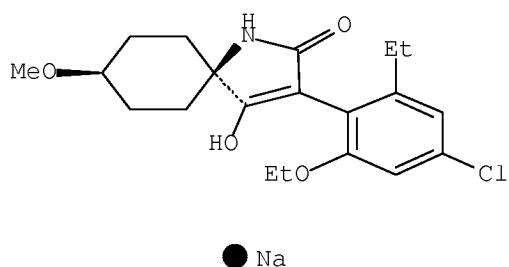
CN Benzoic acid, 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-[[[(methylsulfonyl)amino]methyl]-, methyl ester, sodium salt (1:1), mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

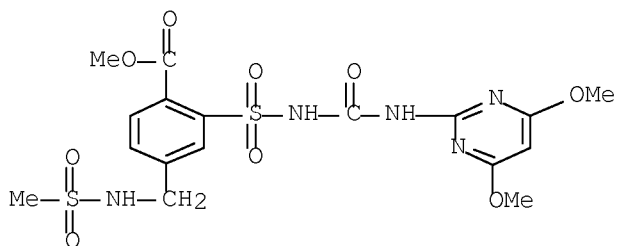
Relative stereochemistry.



CM 2

CRN 208465-19-4

CMF C17 H21 N5 O9 S2 . Na



● Na

RN 1097904-89-6 CAPLUS

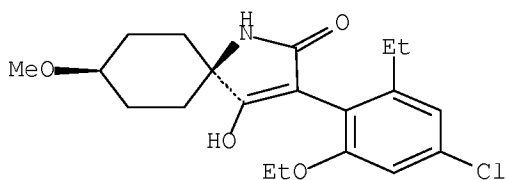
CN Benzoic acid, 4-iodo-2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-, methyl ester, sodium salt (1:1), mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.

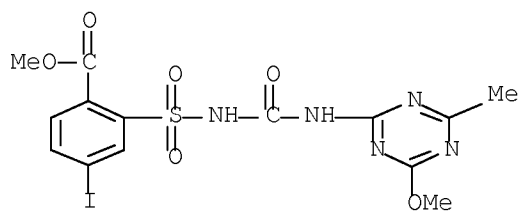


● Na

CM 2

CRN 144550-36-7

CMF C14 H14 I N5 O6 S . Na



● Na

RN 1097904-90-9 CAPLUS

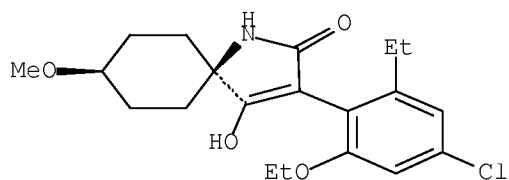
CN Octanoic acid, 2,6-dibromo-4-cyanophenyl ester, mixt. with  
cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.

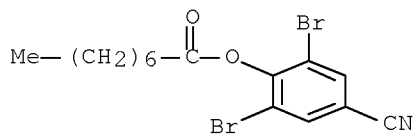


● Na

CM 2

CRN 1689-99-2

CMF C15 H17 Br2 N O2



RN 1097904-93-2 CAPLUS

CN Acetic acid, 2-(4-chloro-2-methylphenoxy)-, mixt. with  
cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-

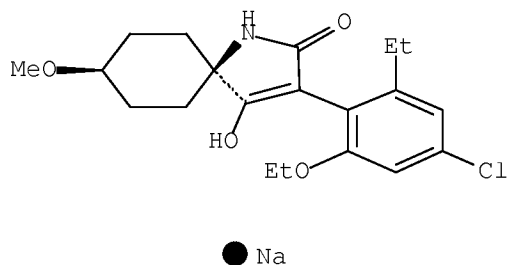
azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

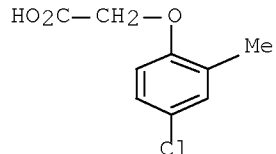
Relative stereochemistry.



CM 2

CRN 94-74-6

CMF C9 H9 Cl O3



RN 1097904-96-5 CAPLUS

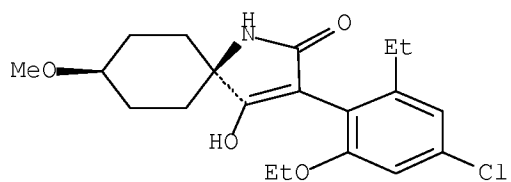
CN Benzoic acid, 2-[[[(4,5-dihydro-4-methyl-5-oxo-3-propoxy-1H-1,2,4-triazol-1-yl)carbonyl]amino]sulfonyl]-, methyl ester, sodium salt (1:1), mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.

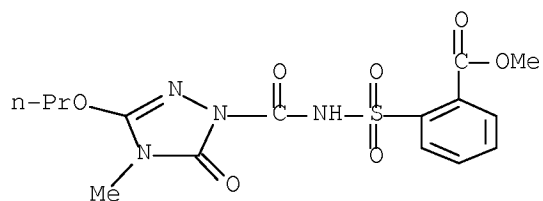


● Na

CM 2

CRN 181274-15-7

CMF C15 H18 N4 O7 S . Na



● Na

RN 1097904-98-7 CAPLUS

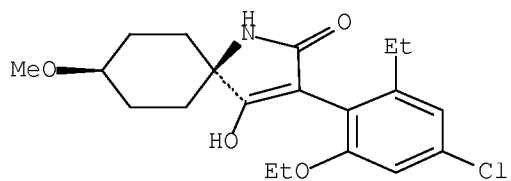
CN 3-Thiophenecarboxylic acid, 4-[[[(4,5-dihydro-3-methoxy-4-methyl-5-oxo-1H-1,2,4-triazol-1-yl)carbonyl]amino]sulfonyl]-5-methyl-, methyl ester, mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.

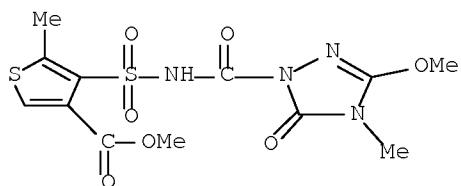


● Na

CM 2

CRN 317815-83-1

CMF C12 H14 N4 O7 S2



RN 1097905-01-5 CAPLUS

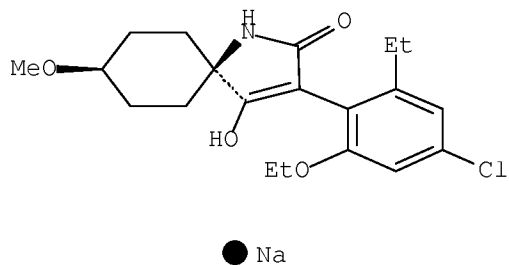
CN Benzoic acid, 3,6-dichloro-2-methoxy-, mixt. with  
cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

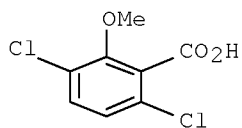
Relative stereochemistry.



CM 2

CRN 1918-00-9

CMF C8 H6 Cl2 O3



RN 1097905-03-7 CAPLUS

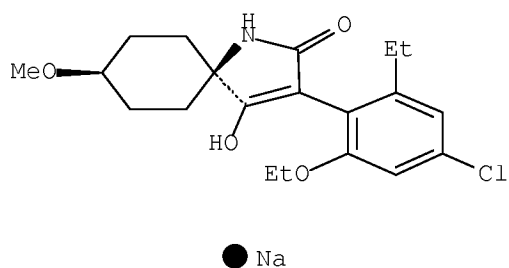
CN Acetic acid, 2-[(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy]-, mixt.  
with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

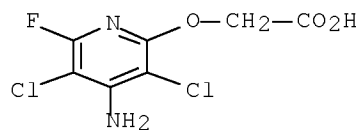
Relative stereochemistry.



CM 2

CRN 69377-81-7

CMF C7 H5 Cl2 F N2 O3



RN 1097905-05-9 CAPLUS

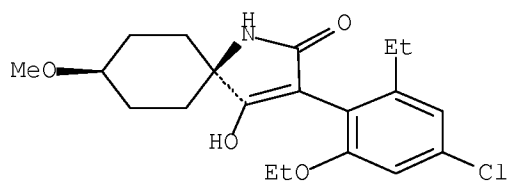
CN Propanoic acid, 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-, ethyl ester,  
(2R)-, mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-  
methoxy-1-azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.



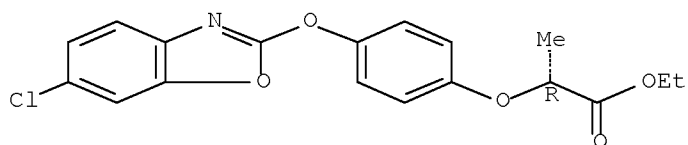
● Na

CM 2

CRN 71283-80-2

CMF C18 H16 Cl N O5

Absolute stereochemistry.



RN 1097905-07-1 CAPLUS

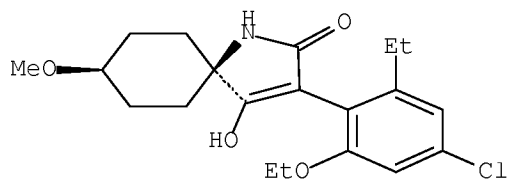
CN 3-Pyridinecarboxamide, N-(2,4-difluorophenyl)-2-[3-(trifluoromethyl)phenoxy]-, mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.

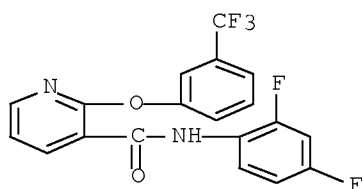


● Na

CM 2



CRN 83164-33-4  
CMF C19 H11 F5 N2 O2

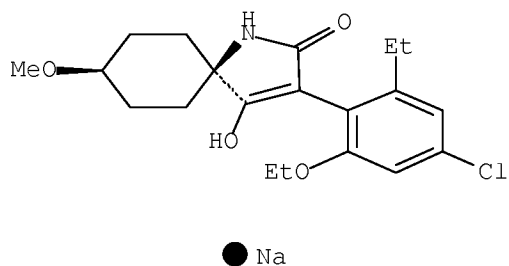


RN 1097905-08-2 CAPLUS  
CN 3,5-Dithia-2,4-diazahexanamide, N-(4,6-dimethoxy-2-pyrimidinyl)-4-methyl-,  
3,3,5,5-tetraoxide, mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-  
hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA  
INDEX NAME)

CM 1

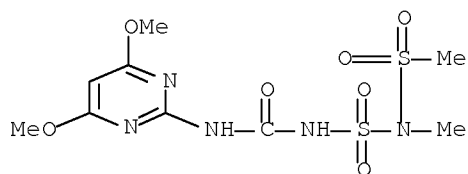
CRN 1095082-39-5  
CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.



CM 2

CRN 120923-37-7  
CMF C9 H15 N5 O7 S2

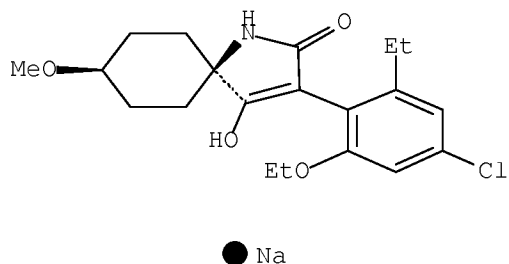


RN 1097905-10-6 CAPLUS  
 CN Propanoic acid, 2-(4-chloro-2-methylphenoxy)-, mixt. with  
 cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
 azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

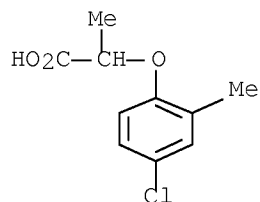
CRN 1095082-39-5  
 CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.



CM 2

CRN 93-65-2  
 CMF C10 H11 Cl O3

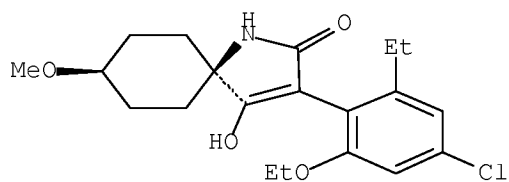


RN 1097905-14-0 CAPLUS  
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-  
 hydroxy-8-methoxy-, cis-, sodium salt (1:1), mixt. with  
 (5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)[2-(methylsulfonyl)-4-  
 (trifluoromethyl)phenyl]methanone (CA INDEX NAME)

CM 1

CRN 1095082-39-5  
 CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.

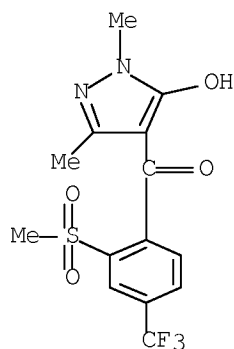


● Na

CM 2

CRN 365400-11-9

CMF C14 H13 F3 N2 O4 S

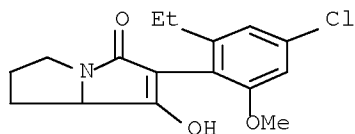


IT 1083200-66-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
(in prepn. of herbicidal tetramate)

RN 1083200-66-1 CAPLUS

CN 3H-Pyrrolizin-3-one, 2-(4-chloro-2-ethyl-6-methoxyphenyl)-5,6,7,7a-tetrahydro-1-hydroxy- (CA INDEX NAME)



IT 1095082-36-2P 1095082-39-5P 1096004-56-6P  
1096004-58-8P 1096004-60-2P 1096004-63-5P  
1096004-66-8P 1096004-68-0P 1096004-70-4P  
1096004-72-6P 1096004-74-8P 1096004-76-0P  
1096004-78-2P 1096004-80-6P 1096004-82-8P  
1096004-84-0P 1096004-86-2P

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      (prepn. for use in herbicide combinations)

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CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-5-cyclopropyl-1,5-dihydro-4-hydroxy-5-methyl-, sodium salt (1:1) (CA INDEX NAME)



CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-, sodium salt (1:1), cis- (CA INDEX NAME)

CCOC1=CC=C(C=C1C(=O)N[C@H]2C[C@@H](C2)C3CCCCC3OC)C

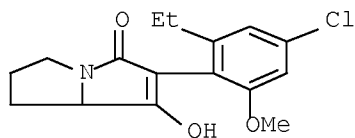
● Na

CN 3H-Pyrrolizidin-3-one, 2-(4-chloro-2-ethyl-6-methoxyphenyl)-5,6,7,7a-tetrahydro-1-hydroxy-, sodium salt (1:1) (CA INDEX NAME)



RN 1096004-58-8 CAPLUS

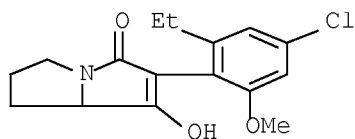
CN 3H-Pyrrolizin-3-one, 2-(4-chloro-2-ethyl-6-methoxyphenyl)-5,6,7,7a-tetrahydro-1-hydroxy-, lithium salt (1:1) (CA INDEX NAME)



● Li

RN 1096004-60-2 CAPLUS

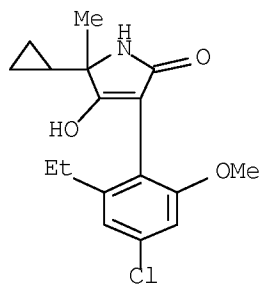
CN 3H-Pyrrolizin-3-one, 2-(4-chloro-2-ethyl-6-methoxyphenyl)-5,6,7,7a-tetrahydro-1-hydroxy-, potassium salt (1:1) (CA INDEX NAME)



● K

RN 1096004-63-5 CAPLUS

CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-5-cyclopropyl-1,5-dihydro-4-hydroxy-5-methyl-, potassium salt (1:1) (CA INDEX NAME)

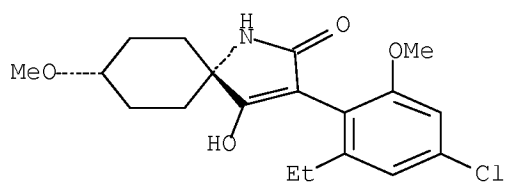


● K

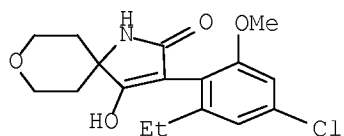
RN 1096004-66-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-methoxy-, sodium salt (1:1), cis- (CA INDEX NAME)

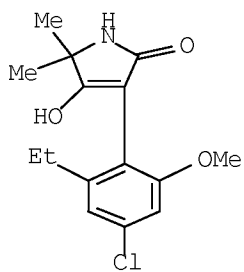
Relative stereochemistry.



RN 1096004-68-0 CAPLUS  
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,  
3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-, sodium salt (1:1) (CA  
INDEX NAME)

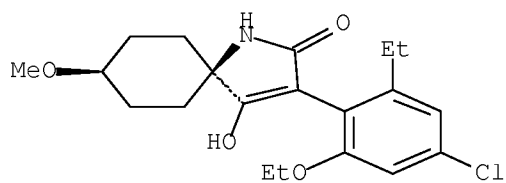


RN 1096004-70-4 CAPLUS  
CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-1,5-dihydro-4-  
hydroxy-5,5-dimethyl-, sodium salt (1:1) (CA INDEX NAME)



RN 1096004-72-6 CAPLUS  
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-  
hydroxy-8-methoxy-, potassium salt (1:1), cis- (CA INDEX NAME)

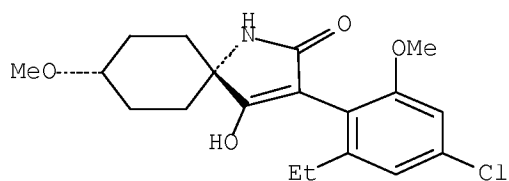
Relative stereochemistry.



RN 1096004-74-8 CAPLUS

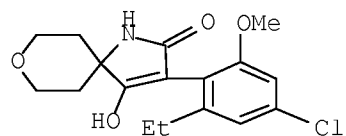
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-methoxy-, potassium salt (1:1), cis- (CA INDEX NAME)

Relative stereochemistry.



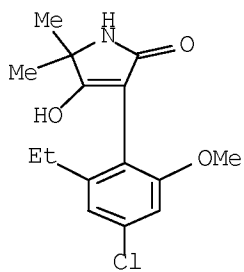
RN 1096004-76-0 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-, potassium salt (1:1) (CA INDEX NAME)



RN 1096004-78-2 CAPLUS

CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl-, potassium salt (1:1) (CA INDEX NAME)

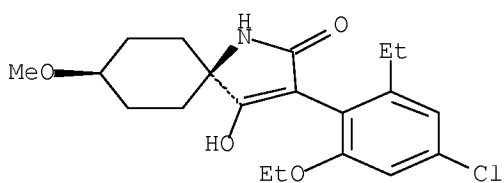


● K

RN 1096004-80-6 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-, lithium salt (1:1), cis- (CA INDEX NAME)

Relative stereochemistry.

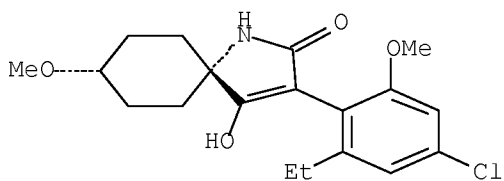


● Li

RN 1096004-82-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-methoxy-, lithium salt (1:1), cis- (CA INDEX NAME)

Relative stereochemistry.

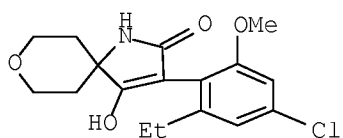


● Li

RN 1096004-84-0 CAPLUS

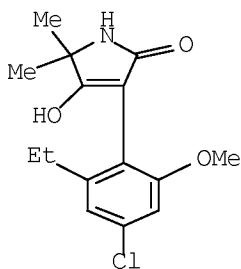
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-, lithium salt (1:1) (CA INDEX NAME)





● Li

RN 1096004-86-2 CAPLUS  
 CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl-, lithium salt (1:1) (CA INDEX NAME)



● Li

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2009:55549 CAPLUS Full-text  
 DOCUMENT NUMBER: 150:115796  
 TITLE: Water-soluble pesticide concentrates of 3-(2-alkoxy 4-chloro-6-alkylphenyl)-substituted tetramates and corresponding enols  
 INVENTOR(S): Bickers, Udo; Sixl, Frank; Hacker, Erwin; Franz, Annika  
 PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany  
 SOURCE: PCT Int. Appl., 72pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

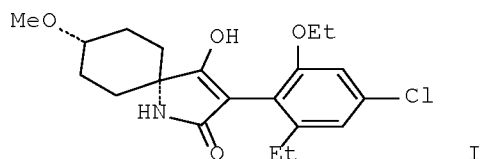
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009007014	A1	20090115	WO 2008-EP5186	20080626
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,				

KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,  
 ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,  
 PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM,  
 TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,  
 IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK,  
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,  
 TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,  
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 2014169 A1 20090114 EP 2007-112052 20070709  
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR,  
 AL, BA, HR, MK, RS

PRIORITY APPLN. INFO.: EP 2007-112052 A 20070709  
 EP 2007-113796 A 20070803  
 EP 2007-120673 A 20071114

OTHER SOURCE(S): MARPAT 150:115796  
 GI



AB The present invention relates to novel water-sol. concs. of 3-(2-alkoxy-4-chloro-6-alkylphenyl)-substituted tetramates and their enols, processes for producing these formulations, and their use as pesticides and/or herbicides. Thus, when a suspension conc. of I was used at 10 g/ha with Genapol LRO at 200 g surfactant/ha, the av. herbicidal effect against 5 weeds was 78%, whereas when Soprophor (comparative surfactant) was used with I, av. effect was only 38%.

IT 1095082-45-3 1095082-47-5 1095082-49-7  
 1097885-36-3 1097885-56-7  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (in water-sol. concs. of alkoxychloroalkylphenyl-substituted tetramates and their enols as herbicides)

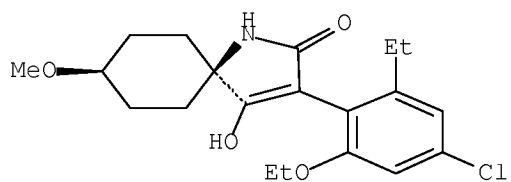
RN 1095082-45-3 CAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid,  
 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, 3,5-diethyl ester, mixt.  
 with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
 azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) and ethyl  
 (2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoate (CA INDEX  
 NAME)

CM 1

CRN 1095082-39-5  
 CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.

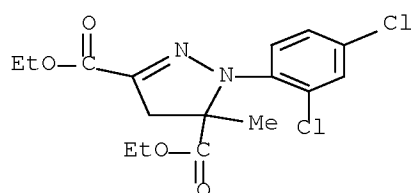


● Na

CM 2

CRN 135590-91-9

CMF C16 H18 Cl2 N2 O4

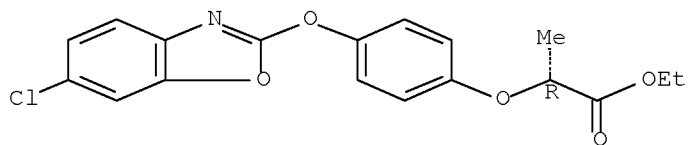


CM 3

CRN 71283-80-2

CMF C18 H16 Cl2 N O5

Absolute stereochemistry.



RN 1095082-47-5 CAPLUS

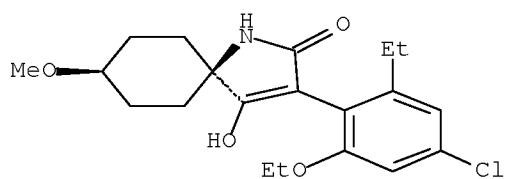
CN Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, ammonium salt (1:1),  
mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
azaspiro[4.5]dec-3-en-2-one (CA INDEX NAME)

CM 1

CRN 1095082-34-0

CMF C20 H26 Cl N O4

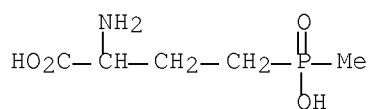
Relative stereochemistry.



CM 2

CRN 77182-82-2

CMF C5 H12 N O4 P . H3 N



RN 1095082-49-7 CAPLUS

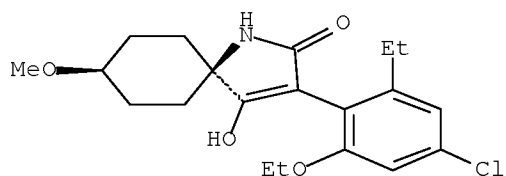
CN Propanoic acid, 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-, ethyl ester, (2R)-, mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one (CA INDEX NAME)

CM 1

CRN 1095082-34-0

CMF C20 H26 Cl N O4

Relative stereochemistry.

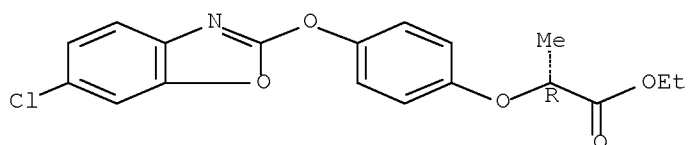


CM 2

CRN 71283-80-2

CMF C18 H16 Cl N O5

Absolute stereochemistry.



RN 1097885-36-3 CAPLUS

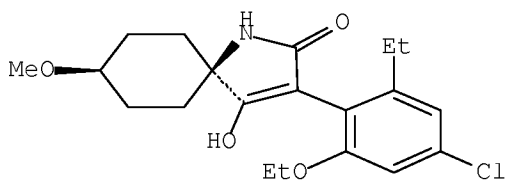
CN Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, ammonium salt (1:1),  
mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.

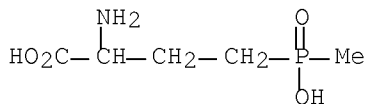


● Na

CM 2

CRN 77182-82-2

CMF C5 H12 N O4 P . H3 N



● NH3

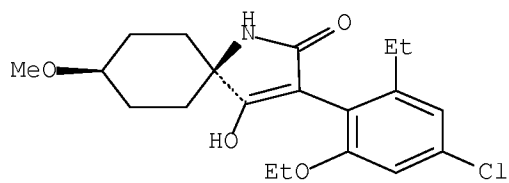
RN 1097885-56-7 CAPLUS

CN Glycine, N-(phosphonomethyl)-, compd. with 2-propanamine (1:1), mixt. with  
cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5  
CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.



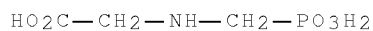
● Na

CM 2

CRN 38641-94-0  
CMF C3 H9 N . C3 H8 N O5 P

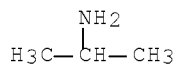
CM 3

CRN 1071-83-6  
CMF C3 H8 N O5 P



CM 4

CRN 75-31-0  
CMF C3 H9 N



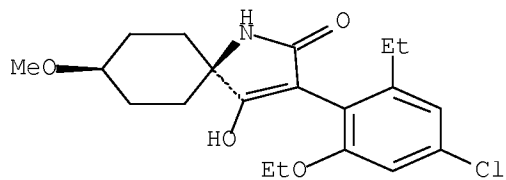
IT 1097885-37-4 1097885-38-5 1097885-41-0  
1097885-45-4 1097885-47-6 1097885-49-8  
1097885-52-3 1097885-54-5  
RL: AGR (Agricultural use); PRPH (Prophetic); BIOL (Biological study);  
USES (Uses)  
(in water-sol. concs. of alkoxychloroalkylphenyl-substituted tetramates  
and their enols as herbicides)  
RN 1097885-37-4 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED

CM 1

CRN 1096004-72-6

CMF C20 H26 Cl N O4 . K

Relative stereochemistry.

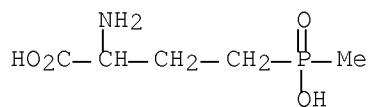


● K

CM 2

CRN 77182-82-2

CMF C5 H12 N O4 P . H3 N



● NH<sub>3</sub>

RN 1097885-38-5 CAPLUS

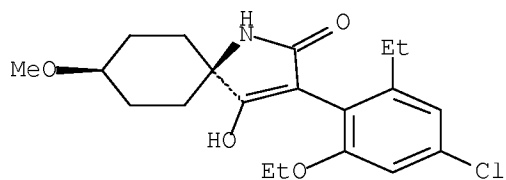
CN INDEX NAME NOT YET ASSIGNED

CM 1

CRN 1096004-80-6

CMF C20 H26 Cl N O4 . Li

Relative stereochemistry.

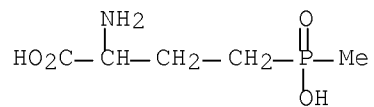


● Li

CM 2

CRN 77182-82-2

CMF C5 H12 N O4 P . H3 N



RN 1097885-41-0 CAPLUS

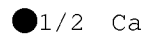
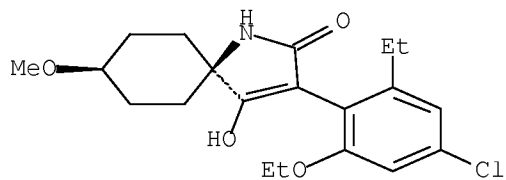
CN INDEX NAME NOT YET ASSIGNED

CM 1

CRN 1097885-40-9

CMF C20 H26 Cl N O4 . 1/2 Ca

Relative stereochemistry.

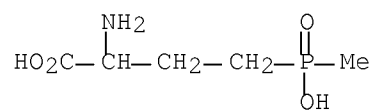


CM 2

CRN 77182-82-2

CMF C5 H12 N O4 P . H3 N



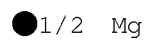
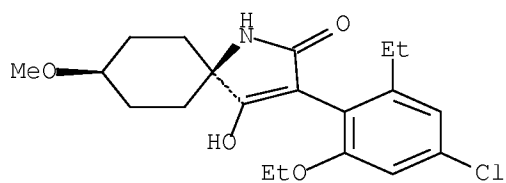


RN 1097885-45-4 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED

CM 1

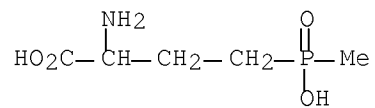
CRN 1097885-44-3  
CMF C20 H26 Cl N O4 . 1/2 Mg

Relative stereochemistry.



CM 2

CRN 77182-82-2  
CMF C5 H12 N O4 P . H3 N



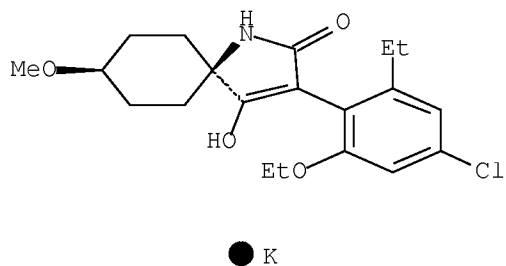
RN 1097885-47-6 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED

CM 1

CRN 1096004-72-6

CMF C20 H26 Cl N O4 . K

Relative stereochemistry.

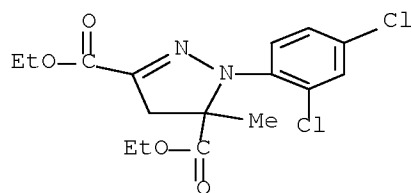


● K

CM 2

CRN 135590-91-9

CMF C16 H18 Cl2 N2 O4

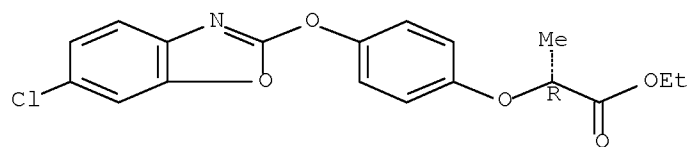


CM 3

CRN 71283-80-2

CMF C18 H16 Cl N O5

Absolute stereochemistry.



RN 1097885-49-8 CAPLUS

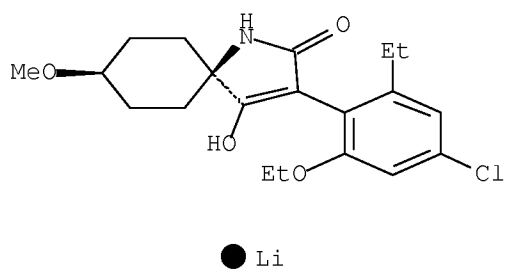
CN INDEX NAME NOT YET ASSIGNED

CM 1

CRN 1096004-80-6

CMF C20 H26 Cl N O4 . Li

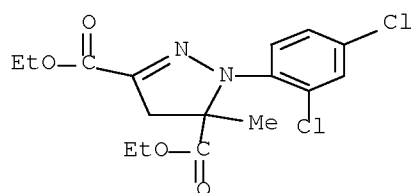
Relative stereochemistry.



CM 2

CRN 135590-91-9

CMF C16 H18 Cl2 N2 O4

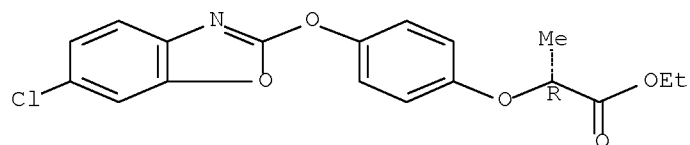


CM 3

CRN 71283-80-2

CMF C18 H16 Cl N O5

Absolute stereochemistry.



RN 1097885-52-3 CAPLUS

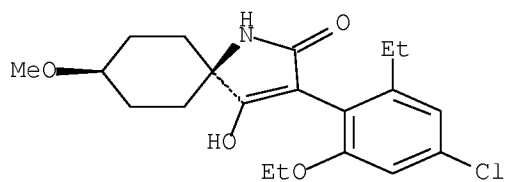
CN INDEX NAME NOT YET ASSIGNED

CM 1

CRN 1097885-40-9

CMF C20 H26 Cl N O4 . 1/2 Ca

Relative stereochemistry.

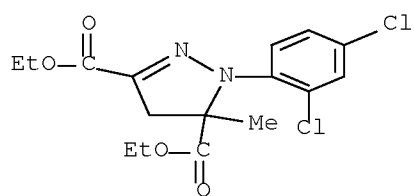


● 1/2 Ca

CM 2

CRN 135590-91-9

CMF C16 H18 Cl2 N2 O4

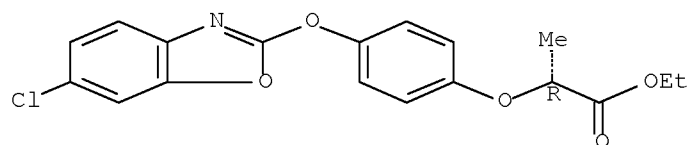


CM 3

CRN 71283-80-2

CMF C18 H16 Cl N O5

Absolute stereochemistry.



RN 1097885-54-5 CAPLUS

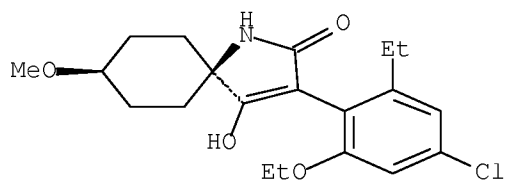
CN INDEX NAME NOT YET ASSIGNED

CM 1

CRN 1097885-44-3

CMF C20 H26 Cl N O4 . 1/2 Mg

Relative stereochemistry.

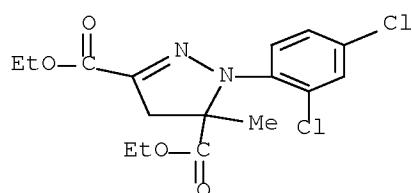


● 1/2 Mg

CM 2

CRN 135590-91-9

CMF C16 H18 Cl2 N2 O4

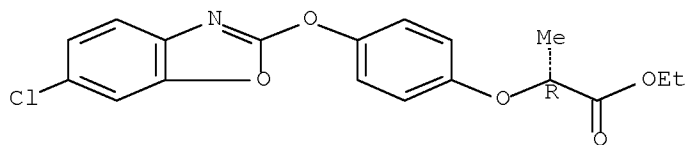


CM 3

CRN 71283-80-2

CMF C18 H16 Cl2 N O5

Absolute stereochemistry.



IT 1096004-72-6 1096004-80-6 1097885-40-9

1097885-44-3

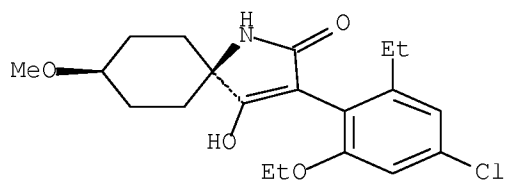
RL: AGR (Agricultural use); PRPH (Prophetic); BIOL (Biological study);  
USES (Uses)

(water-sol. concs. of alkoxychloroalkylphenyl-substituted tetramates  
and their enols as pesticides or herbicides)

RN 1096004-72-6 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-  
hydroxy-8-methoxy-, potassium salt (1:1), cis- (CA INDEX NAME)

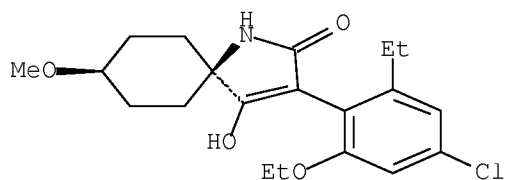
Relative stereochemistry.



● K

RN 1096004-80-6 CAPLUS  
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-, lithium salt (1:1), cis- (CA INDEX NAME)

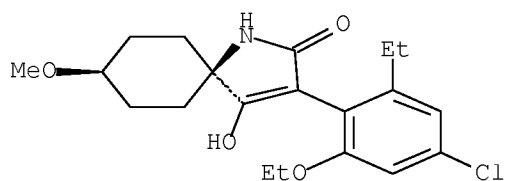
Relative stereochemistry.



● Li

RN 1097885-40-9 CAPLUS  
 CN INDEX NAME NOT YET ASSIGNED

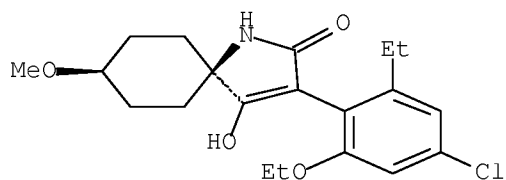
Relative stereochemistry.



● 1/2 Ca

RN 1097885-44-3 CAPLUS  
 CN INDEX NAME NOT YET ASSIGNED

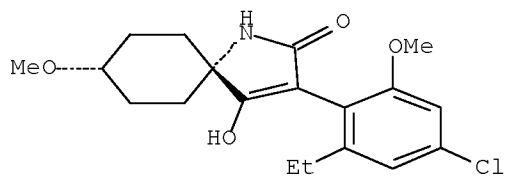
Relative stereochemistry.



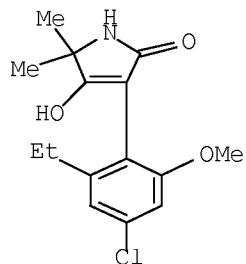
● 1/2 Mg

IT 760209-98-1 760210-00-2 1095082-32-8  
 1095082-34-0 1095082-36-2 1095082-39-5  
 1096004-66-8 1096004-70-4  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
 (Biological study); USES (Uses)  
 (water-sol. pesticide concs., formulation prodn., and use as  
 herbicides)  
 RN 760209-98-1 CAPLUS  
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-  
 hydroxy-8-methoxy-, (5.alpha.,8.alpha.)- (CA INDEX NAME)

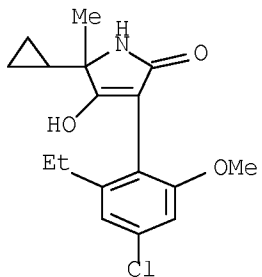
Relative stereochemistry.



RN 760210-00-2 CAPLUS  
 CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-1,5-dihydro-4-  
 hydroxy-5,5-dimethyl- (CA INDEX NAME)



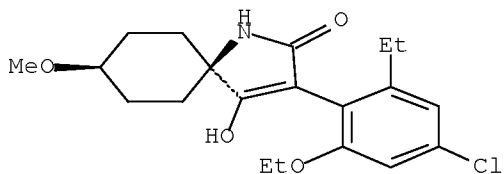
RN 1095082-32-8 CAPLUS  
 CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-5-cyclopropyl-1,5-  
 dihydro-4-hydroxy-5-methyl- (CA INDEX NAME)



RN 1095082-34-0 CAPLUS

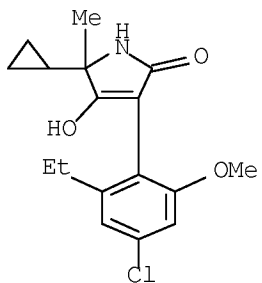
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-, cis- (CA INDEX NAME)

Relative stereochemistry.



RN 1095082-36-2 CAPLUS

CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-5-cyclopropyl-1,5-dihydro-4-hydroxy-5-methyl-, sodium salt (1:1) (CA INDEX NAME)



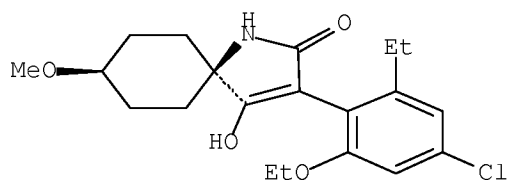
● Na

RN 1095082-39-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-, sodium salt (1:1), cis- (CA INDEX NAME)

Relative stereochemistry.



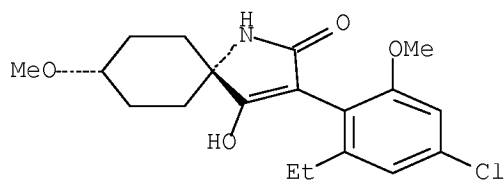


● Na

RN 1096004-66-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-methoxy-, sodium salt (1:1), cis- (CA INDEX NAME)

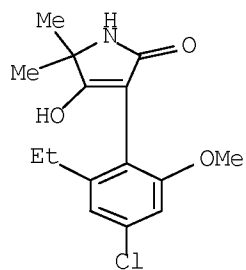
Relative stereochemistry.



● Na

RN 1096004-70-4 CAPLUS

CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl-, sodium salt (1:1) (CA INDEX NAME)



● Na

REFERENCE COUNT:

7

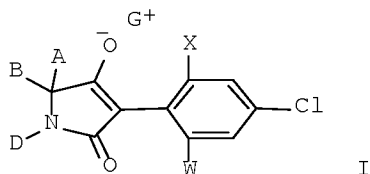
THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:45327 CAPLUS Full-text

DOCUMENT NUMBER: 150:115794  
 TITLE: Herbicide combinations with 3-(2-alkoxy  
 4-chloro-6-alkyl-phenyl)-substituted tetramates  
 PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany  
 SOURCE: Eur. Pat. Appl., 37pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

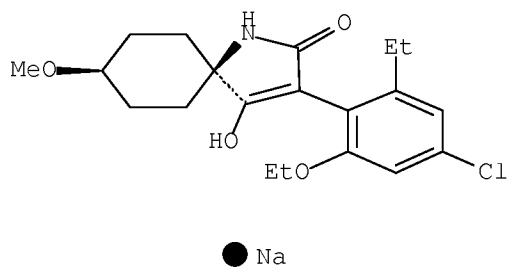
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 2014170	A1	20090114	EP 2007-112053	20070709
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
WO 2009007013	A1	20090115	WO 2008-EP5185	20080626
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			EP 2007-112053	A 20070709
GI				



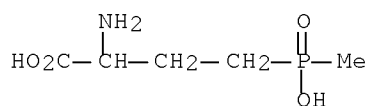
AB Herbicide combinations contain title compds. (I; W = Me, Et; X = MeO, EtO; G = Li, Na, K; A = C1-4 alkyl, cyclopropyl; B = Me or A and B together form part of a ring; D = H or A and D together form a C3-4 alkylidene) and .gtoreq.1 addnl. component selected from branched amino acid biosynthesis inhibitors, photosynthetic electron transport inhibitors, synthetic auxins, inhibitors of fatty acid and(or) carotenoid biosynthesis, cell division inhibitors, hydroxyphenylpyruvate dioxygenase inhibitors, protoporphyrinogen oxidase inhibitors, microtubule assembly inhibitors, cellulose formation inhibitors, and other herbicides such as diquat. The combinations may contain a safener. Thus, cis-I (W = Et; X = EtO; A, B together form (CH<sub>2</sub>)<sub>2</sub>CH(OMe)(CH<sub>2</sub>)<sub>2</sub>; D = H; G = Na<sup>+</sup>) + glufosinate at 250 + 5 g/ha synergistically controlled *Chenopodium album*.

IT 1096004-88-4  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
 (Biological study); USES (Uses)  
 (as synergistic herbicide)  
 RN 1096004-88-4 CAPLUS  
 CN Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, mixt. with  
 cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
 azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)  
 CM 1  
 CRN 1095082-39-5  
 CMF C20 H26 Cl N O4 . Na

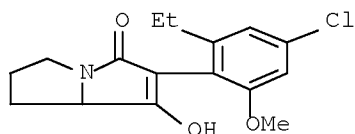
Relative stereochemistry.



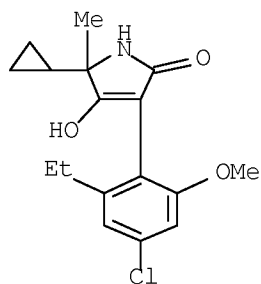
CM 2  
 CRN 51276-47-2  
 CMF C5 H12 N O4 P



IT 1083200-66-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (in prepn. of herbicidal tetramate)  
 RN 1083200-66-1 CAPLUS  
 CN 3H-Pyrrolizin-3-one, 2-(4-chloro-2-ethyl-6-methoxyphenyl)-5,6,7,7a-  
 tetrahydro-1-hydroxy- (CA INDEX NAME)



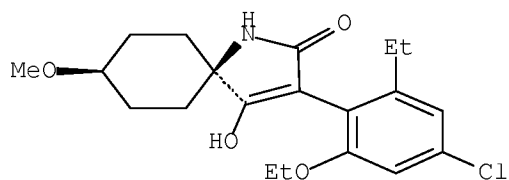
IT 1095082-36-2P 1095082-39-5P 1096004-58-8P  
 1096004-60-2P 1096004-63-5P 1096004-66-8P  
 1096004-70-4P 1096004-72-6P 1096004-74-8P  
 1096004-76-0P 1096004-78-2P 1096004-80-6P  
 1096004-82-8P 1096004-84-0P 1096004-86-2P  
 RL: AGR (Agricultural use); PRPH (Prophetic); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. for use in herbicide combinations)  
 RN 1095082-36-2 CAPLUS  
 CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-5-cyclopropyl-1,5-  
 dihydro-4-hydroxy-5-methyl-, sodium salt (1:1) (CA INDEX NAME)



● Na

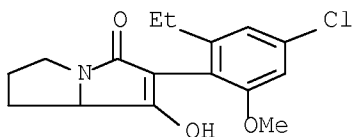
RN 1095082-39-5 CAPLUS  
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-  
 hydroxy-8-methoxy-, sodium salt (1:1), cis- (CA INDEX NAME)

Relative stereochemistry.



● Na

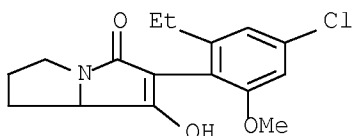
RN 1096004-58-8 CAPLUS  
 CN 3H-Pyrrolizin-3-one, 2-(4-chloro-2-ethyl-6-methoxyphenyl)-5,6,7,7a-  
 tetrahydro-1-hydroxy-, lithium salt (1:1) (CA INDEX NAME)



● Li

RN 1096004-60-2 CAPLUS

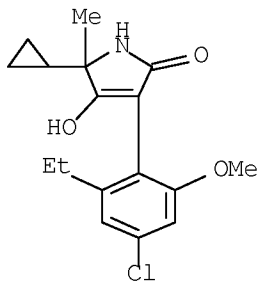
CN 3H-Pyrrolizin-3-one, 2-(4-chloro-2-ethyl-6-methoxyphenyl)-5,6,7,7a-tetrahydro-1-hydroxy-, potassium salt (1:1) (CA INDEX NAME)



● K

RN 1096004-63-5 CAPLUS

CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-5-cyclopropyl-1,5-dihydro-4-hydroxy-5-methyl-, potassium salt (1:1) (CA INDEX NAME)

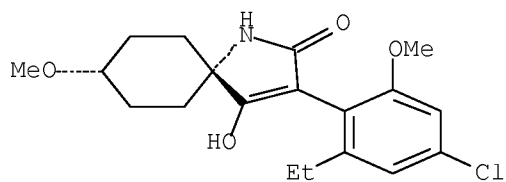


● K

RN 1096004-66-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-methoxy-, sodium salt (1:1), cis- (CA INDEX NAME)

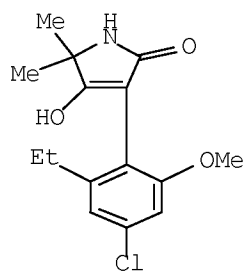
Relative stereochemistry.



● Na

RN 1096004-70-4 CAPLUS

CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl-, sodium salt (1:1) (CA INDEX NAME)

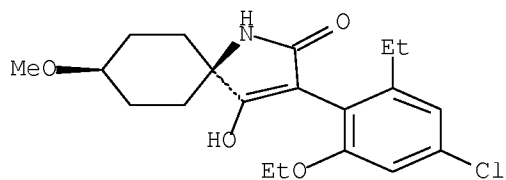


● Na

RN 1096004-72-6 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-, potassium salt (1:1), cis- (CA INDEX NAME)

Relative stereochemistry.

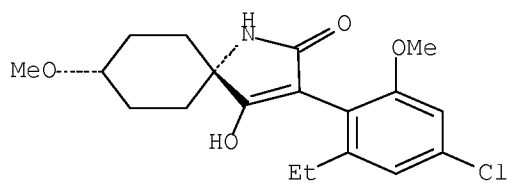


● K

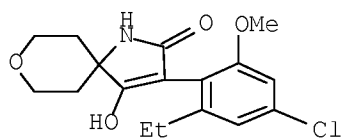
RN 1096004-74-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-methoxy-, potassium salt (1:1), cis- (CA INDEX NAME)

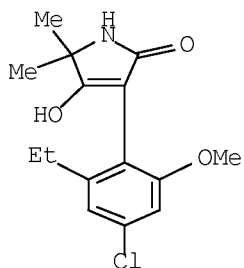
Relative stereochemistry.



RN 1096004-76-0 CAPLUS  
 CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,  
 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-, potassium salt (1:1) (CA  
 INDEX NAME)

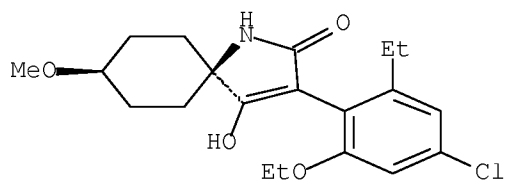


RN 1096004-78-2 CAPLUS  
 CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-1,5-dihydro-4-  
 hydroxy-5,5-dimethyl-, potassium salt (1:1) (CA INDEX NAME)



RN 1096004-80-6 CAPLUS  
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-  
 hydroxy-8-methoxy-, lithium salt (1:1), cis- (CA INDEX NAME)

Relative stereochemistry.

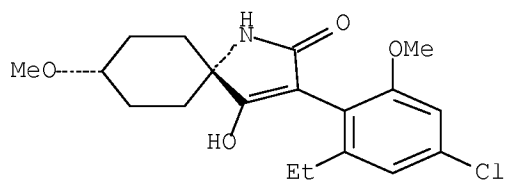


● Li

RN 1096004-82-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-methoxy-, lithium salt (1:1), cis- (CA INDEX NAME)

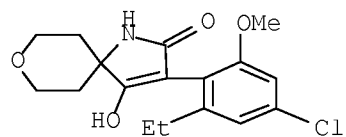
Relative stereochemistry.



● Li

RN 1096004-84-0 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-, lithium salt (1:1) (CA INDEX NAME)

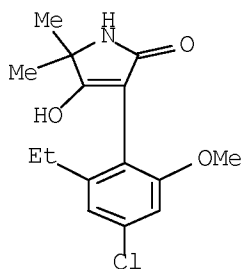


● Li

RN 1096004-86-2 CAPLUS

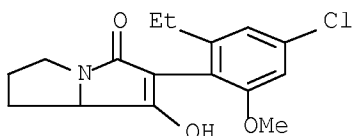
CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl-, lithium salt (1:1) (CA INDEX NAME)





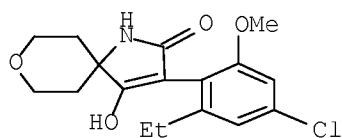
● Li

IT 1096004-56-6P 1096004-68-0P  
 RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. for use in herbicide combinations)  
 RN 1096004-56-6 CAPLUS  
 CN 3H-Pyrrolizin-3-one, 2-(4-chloro-2-ethyl-6-methoxyphenyl)-5,6,7,7a-tetrahydro-1-hydroxy-, sodium salt (1:1) (CA INDEX NAME)



● Na

RN 1096004-68-0 CAPLUS  
 CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,  
 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-, sodium salt (1:1) (CA INDEX NAME)



● Na

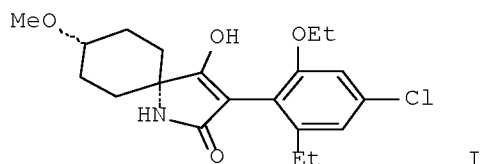
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2009:45312 CAPLUS Full-text

DOCUMENT NUMBER: 150:91830  
 TITLE: Water-soluble pesticide concentrates of 3-(2-alkoxy  
 4-chloro-6-alkylphenyl)-substituted tetramates and  
 corresponding enols  
 PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany  
 SOURCE: Eur. Pat. Appl., 27pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 2014169	A1	20090114	EP 2007-112052	20070709
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
WO 2009007014	A1	20090115	WO 2008-EP5186	20080626
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			EP 2007-112052	A 20070709
			EP 2007-113796	A 20070803
			EP 2007-120673	A 20071114

GI



AB The present invention relates to novel water-sol. concs. of 3-(2-alkoxy-4-chloro-6-alkylphenyl)-substituted tetramates and their enols, processes for producing these formulations, and their use as pesticides and/or herbicides. Thus, when a suspension conc. of I was used at 10 g/ha with Genapol LRO at 200 g surfactant/ha, the av. herbicidal effect against 5 weeds was 78%, whereas when Soprophor (comparative surfactant) was used with I, av. effect was only 38%.

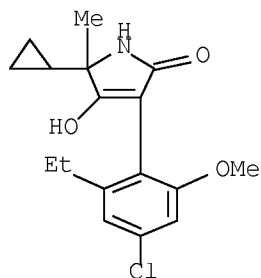
IT 1095082-32-8 1095082-34-0 1095082-36-2  
 1095082-39-5 1095082-41-9 1095082-43-1

1095082-45-3 1095082-47-5 1095082-49-7

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
(Biological study); USES (Uses)  
(water-sol. pesticide concs., formulation prodn., and use as  
herbicides)

RN 1095082-32-8 CAPLUS

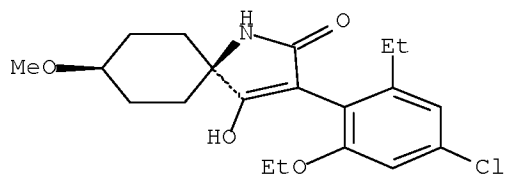
CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-5-cyclopropyl-1,5-  
dihydro-4-hydroxy-5-methyl- (CA INDEX NAME)



RN 1095082-34-0 CAPLUS

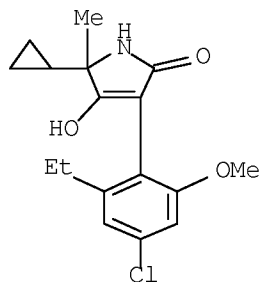
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-  
hydroxy-8-methoxy-, cis- (CA INDEX NAME)

Relative stereochemistry.



RN 1095082-36-2 CAPLUS

CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-5-cyclopropyl-1,5-  
dihydro-4-hydroxy-5-methyl-, sodium salt (1:1) (CA INDEX NAME)

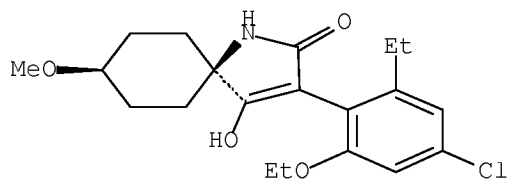


● Na

RN 1095082-39-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-, sodium salt (1:1), cis- (CA INDEX NAME)

Relative stereochemistry.



● Na

RN 1095082-41-9 CAPLUS

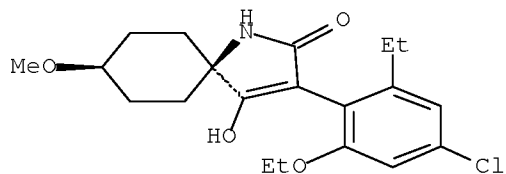
CN Glycine, N-(phosphonomethyl)-, mixt. with  
cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
azaspiro[4.5]dec-3-en-2-one (CA INDEX NAME)

CM 1

CRN 1095082-34-0

CMF C20 H26 Cl N O4

Relative stereochemistry.



CM 2

CRN 1071-83-6

CMF C3 H8 N O5 P



RN 1095082-43-1 CAPLUS

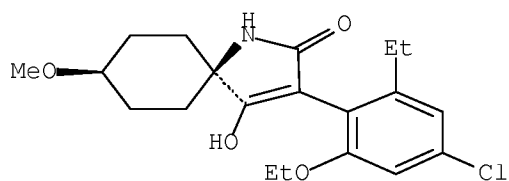
CN Glycine, N-(phosphonomethyl)-, mixt. with  
cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) (CA INDEX NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.



● Na

CM 2

CRN 1071-83-6

CMF C3 H8 N O5 P



RN 1095082-45-3 CAPLUS

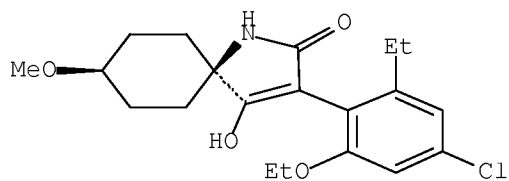
CN 1H-Pyrazole-3,5-dicarboxylic acid,  
1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, 3,5-diethyl ester, mixt.  
with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
azaspiro[4.5]dec-3-en-2-one sodium salt (1:1) and ethyl  
(2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoate (CA INDEX  
NAME)

CM 1

CRN 1095082-39-5

CMF C20 H26 Cl N O4 . Na

Relative stereochemistry.

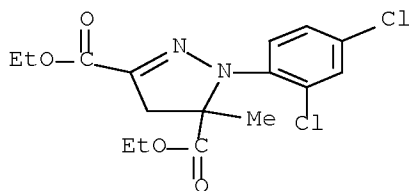


● Na

CM 2

CRN 135590-91-9

CMF C16 H18 Cl2 N2 O4

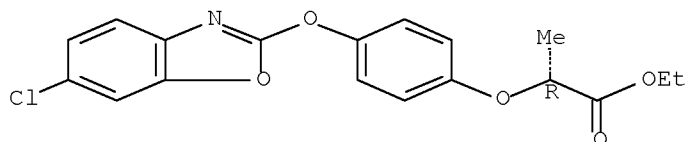


CM 3

CRN 71283-80-2

CMF C18 H16 Cl N O5

Absolute stereochemistry.



RN 1095082-47-5 CAPLUS

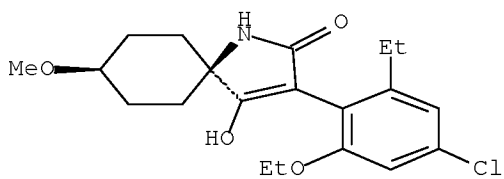
CN Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, ammonium salt (1:1),  
mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-  
azaspiro[4.5]dec-3-en-2-one (CA INDEX NAME)

CM 1

CRN 1095082-34-0

CMF C20 H26 Cl N O4

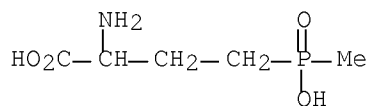
Relative stereochemistry.



CM 2

CRN 77182-82-2

CMF C5 H12 N O4 P . H3 N



RN 1095082-49-7 CAPLUS

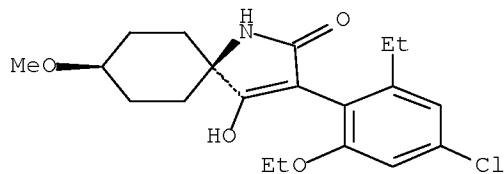
CN Propanoic acid, 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-, ethyl ester, (2R)-, mixt. with cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one (CA INDEX NAME)

CM 1

CRN 1095082-34-0

CMF C20 H26 Cl N O4

Relative stereochemistry.

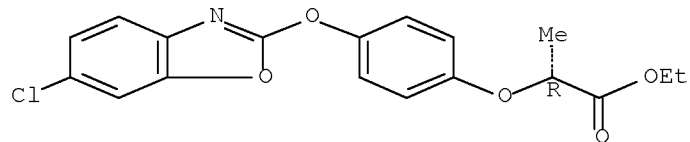


CM 2

CRN 71283-80-2

CMF C18 H16 Cl N O5

Absolute stereochemistry.



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1399401 CAPLUS Full-text

DOCUMENT NUMBER: 149:576389

TITLE: Preparation of 3-phenyl-2,4-pyrrolidinediones as agricultural insecticides

INVENTOR(S): Fischer, Reiner; Lehr, Stefan; Feucht, Dieter; Malsam, Olga; Angermann, Alfred; Sixl, Frank; Suessmann, Rainer; Bickers, Udo; Hills, Martin Jeffrey; Kehne, Heinz; Rosinger, Christopher Hugh; Dittgen, Jan

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 120pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

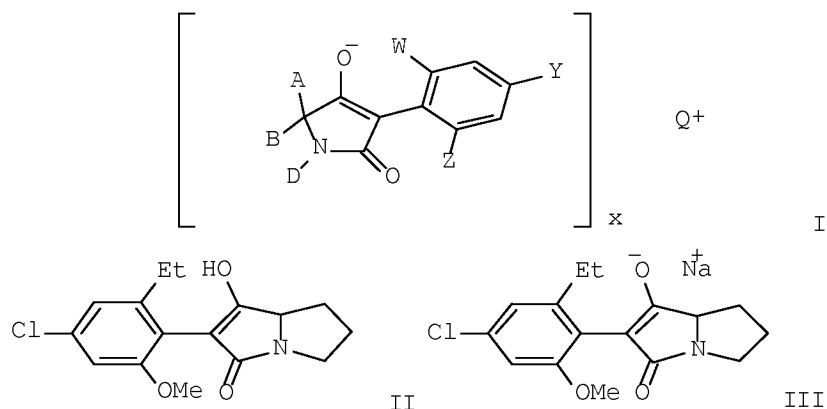
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008138551	A2	20081120	WO 2008-EP3730	20080509
WO 2008138551	A3	20090226		
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
EP 1992614	A1	20081119	EP 2007-9766	20070516
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS			

PRIORITY APPLN. INFO.: EP 2007-9766 A 20070516

OTHER SOURCE(S): MARPAT 149:576389

GI



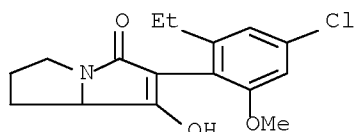


AB Title compds. I [Q+ = G(+)n; n = 1-2; x = 1-2; G = metal ion; Z = alkoxy, alkoxyalkoxy, etc.; W = alkyl; Y = halo; A = H, haloalkyl, haloalkenyl, etc.; B = H, alkyl, alkoxyalkyl; D = H, alkyl, alkenyl, etc.] were prepd. For example, MeONa/MeOH mediated deprotonation of pyrrolidinedione II afforded alkoxide III in 97% yield. In myzus persicae protection assays, 7-examples of compds. I exhibited .gtoreq. 80% at 100 g/ha.

IT 1083200-66-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (prepn. of 3-phenyl-2,4-pyrrolidinediones as agricultural insecticides)

RN 1083200-66-1 CAPLUS

CN 3H-Pyrrolizin-3-one, 2-(4-chloro-2-ethyl-6-methoxyphenyl)-5,6,7,7a-tetrahydro-1-hydroxy- (CA INDEX NAME)



L4 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1389464 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 149:576388

TITLE: Preparation of 3-phenyl-2,4-pyrrolidinediones as agricultural insecticides

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: Eur. Pat. Appl., 68pp.  
 CODEN: EPXXDW

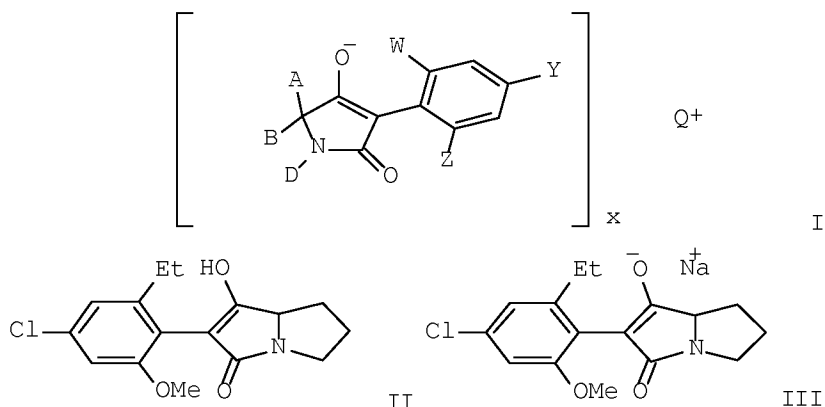
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1992614	A1	20081119	EP 2007-9766	20070516
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
WO 2008138551	A2	20081120	WO 2008-EP3730	20080509
WO 2008138551	A3	20090226		
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				

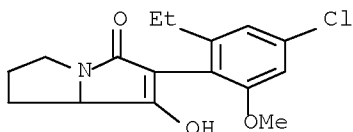


AB Title compds. I [ $Q^+ = G^{(+)}n$ ;  $n = 1-2$ ;  $x = 1-2$ ;  $G$  = metal ion;  $Z$  = alkoxy, alkoxyalkoxy, etc.;  $W$  = alkyl;  $Y$  = halo;  $A$  = H, haloalkyl, haloalkenyl, etc.;  $B$  = H, alkyl, alkoxyalkyl;  $D$  = H, alkyl, alkenyl, etc.] were prepd. For example, MeONa/MeOH mediated deprotonation of pyrrolidinedione II afforded alkoxide III in 97% yield. In myzus persicae protection assays, 7-examples of compds. I exhibited .gtoreq. 80% at 100 g/ha.

IT 1083200-66-1  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(prepn. of 3-phenyl-2,4-pyrrolidinediones as agricultural insecticides)

RN 1083200-66-1 CAPLUS

CN 3H-Pyrrolizin-3-one, 2-(4-chloro-2-ethyl-6-methoxyphenyl)-5,6,7,7a-tetrahydro-1-hydroxy- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2008:252698 CAPLUS Full-text  
DOCUMENT NUMBER: 148:308091  
TITLE: Biphenyl substituted spirotetronic acids and their use for the treatment of retroviral disorders  
INVENTOR(S): Heimbach, Dirk; Tersteegen, Adrian; Thede, Kai; Welker, Reinhold; Fast, Beate; Paessens, Arnold; Dittmer, Frank; Schohe-Loop, Rudolf; Harrenga, Axel; Hillisch, Alexander; Henninger, Kerstin; Huebsch,

Walter; Bauser, Marcus; Paulsen, Daniela; Birkmann, Alexander; Bretschneider, Thomas; Fischer, Reiner; Greschat, Susanne; Urban, Andreas; Wildum, Steffen

PATENT ASSIGNEE(S): Bayer Healthcare AG, Germany

SOURCE: PCT Int. Appl., 169pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008022725	A1	20080228	WO 2007-EP7130	20070813
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
DE 102006039912	A1	20080320	DE 2006-102006039912	20060825
CA 2660084	A1	20080228	CA 2007-2660084	20070813
EP 2054053	A1	20090506	EP 2007-801624	20070813
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
PRIORITY APPLN. INFO.:			DE 2006-102006039912A	20060825
			WO 2007-EP7130	W 20070813

OTHER SOURCE(S): MARPAT 148:308091

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The present invention relates to novel substituted spirotetronic acids I [CR1R2 = A1, A2, A3, A4; R3 = H, halogen, cyano, Me, Et, OMe, OEt; R4 = H, halogen, Me, Et, OMe, OEt; R5 = H, halogen, cyano, NO2, OH, NH2, CF3, OCF3, CO2H, CONH2, CH2OH, CH2NH2, C1-4-alkyl, C1-4-alkoxy, C1-4-alkylamino, C1-4-alkylthio, C1-4-alkylcarbonyl, C1-4-alkylaminocarbonyl, C3-6-cycloalkylaminocarbonyl, C1-4-alkylcarbonylamino, C1-4-alkoxycarbonylamino, C1-4-alkylsulfonyl, C1-4-alkylsulfonylamino, C2-4-alkenylsulfonylamino, C1-4-alkylsulfonyl(C1-4-alkyl)amino, NHSO2CH2Ph, etc.; R6, R7 = H, halogen, C1-4-alkyl, C1-4-alkoxy; R5R6 = 1,3-dioxolane; R8 = H, oxo, CF3, OCF3, C1-4-alkyl, C1-4-alkoxy, C1-4-alkylthio; R9 = H, C1-4-alkyl, C1-4-alkoxy; R10, R11, R12, R13 = H, C1-4-alkyl; X = O, S, NR14; Y = O, S, NR15; Z = (CH2)n; n = 1, 2, 3; R14 = alkyl, alkenyl, alkylsulfonyl, SO2Ph, (CH2)oCOR16, etc.; o = 0, 1, 2, 3; R15 = alkyl, alkenyl, alkylsulfonyl, SO2CH2Ph, (CH2)rCOR19, etc.; R16 = alkyl, alkenyl, alkoxy, Ph, OCH2Ph, 5- to 10-membered heterocycle; R19 = alkyl, alkenyl, alkoxy, Ph, OCH2Ph, 5- to 10-membered heterocycle; r = 0, 1, 2, 3], their salts, solvates or salt solvates. The present invention also relates to processes for their prepn., their use for the treatment and/or prophylaxis of diseases, and their use for producing medicaments for the treatment and/or

prophylaxis of diseases, in particular of retroviral disorders, in people and/or animals. Two procedures for the prepn. of I are given: the first involves the intramol. cyclocondensation of (acyloxy)cycloalkanecarboxylate II [R32 = Me, Et]; the second uses a Suzuki coupling reaction of (bromophenyl)tetronic acids III with benzene deriv. IV [Q = B(OH)2, boronic acid ester (e.g., pinacol ester), BF3K]. Thus, 3-[4'-chloro-2,5-dimethyl-1,1'-biphenyl-4-yl]-4-hydroxy-7,8-dimethyl-1-oxa[4.5]dec-3-en-2-one (V) was prepd. from (acyloxycyclohexane)carboxylate VI via a Dieckmann cyclization. The retrovirus inhibitory activity of V was detd. [IC50 = .ltoreq. 100 nM vs. HIV-1 protease].

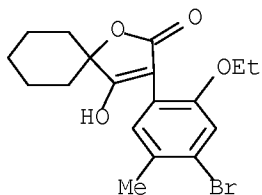
IT 1008780-36-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and Suzuki coupling reaction of, with phenylboronic acids and/or esters; biphenyl-substituted spirotetronic acids and their use for the treatment of retroviral disorders)

RN 1008780-36-6 CAPLUS

CN 1-Oxaspiro[4.5]dec-3-en-2-one, 3-(4-bromo-2-ethoxy-5-methylphenyl)-4-hydroxy- (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1209253 CAPLUS Full-text

DOCUMENT NUMBER: 147:486321

TITLE: Preparation of cycloalkylphenylcyclic ketoenols as herbicides

INVENTOR(S): Fischer, Reiner; Lehr, Stefan; Feucht, Dieter; Malsam, Olga; Hills, Martin Jeffrey; Kehne, Heinz; Rosinger, Christopher Hugh

PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany

SOURCE: Ger. Offen., 88pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006018828	A1	20071025	DE 2006-102006018828	20060422
AU 2007241379	A1	20071101	AU 2007-241379	20070412
CA 2649552	A1	20071101	CA 2007-2649552	20070412
WO 2007121868	A1	20071101	WO 2007-EP3245	20070412

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,

GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 2013168 A1 20090114 EP 2007-724186 20070412

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS

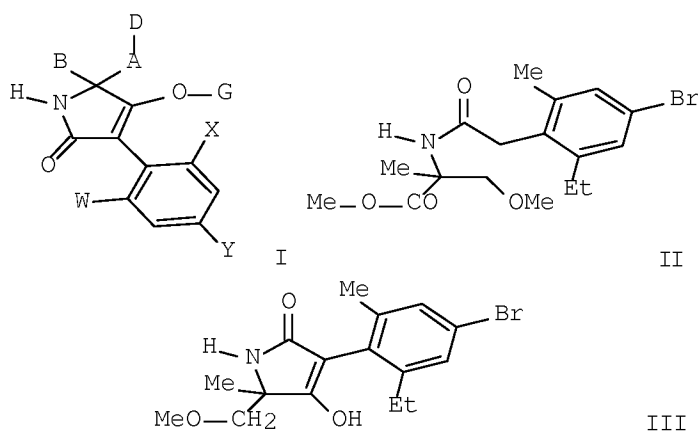
KR 2009010206 A 20090129 KR 2008-728109 20081118

PRIORITY APPLN. INFO.: DE 2006-102006018828A 20060422

WO 2007-EP3245 W 20070412

OTHER SOURCE(S): MARPAT 147:486321

GI



AB Title compds. I [W = H, alkyl, alkenyl, etc.; X = halo, alkyl, alkenyl, etc.; Y = H, alkyl, alkenyl, etc.; A = alkylidendiyl (sic); B = H, alkyl, alkoxyalkyl; D = alkoxy, alkenyloxy, alkynyloxy, etc.; G = H, COR<sub>1</sub>, SO<sub>2</sub>R<sub>3</sub>, etc.; R<sub>1</sub> = alkyl, alkyl, alkenyl, etc.; R<sub>3</sub> = alkyl, alkoxy, alkylamine, etc.] were prepd. For example, t-BuOK mediated condensation/cyclization of ket ester II afforded cyclic ketoenol III in 61% yield. In setaria viridis protection assays, 19-examples of compds. I after 3-wk exhibited >80% protection at 320 g/h.

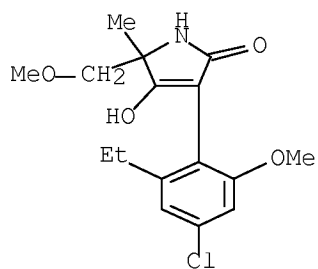
IT 954119-93-8P 954120-09-3P 954120-13-9P 954120-23-1P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of cycloalkylphenylcyclic ketoenols as herbicides)

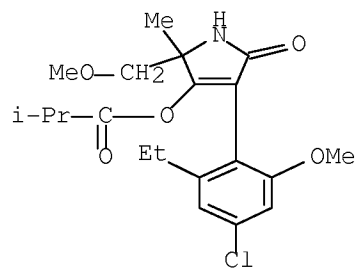
RN 954119-93-8 CAPLUS

CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-1,5-dihydro-4-hydroxy-5-(methoxymethyl)-5-methyl- (CA INDEX NAME)



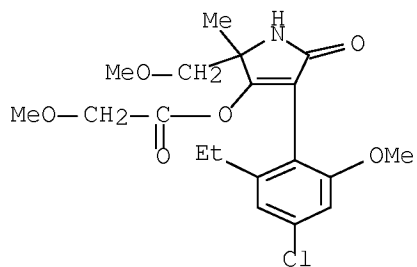
RN 954120-09-3 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(4-chloro-2-ethyl-6-methoxyphenyl)-2,5-dihydro-2-(methoxymethyl)-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



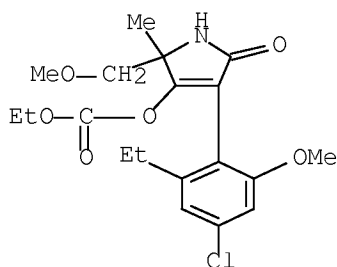
RN 954120-13-9 CAPLUS

CN Acetic acid, 2-methoxy-, 4-(4-chloro-2-ethyl-6-methoxyphenyl)-2,5-dihydro-2-(methoxymethyl)-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 954120-23-1 CAPLUS

CN Carbonic acid, 4-(4-chloro-2-ethyl-6-methoxyphenyl)-2,5-dihydro-2-(methoxymethyl)-2-methyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)

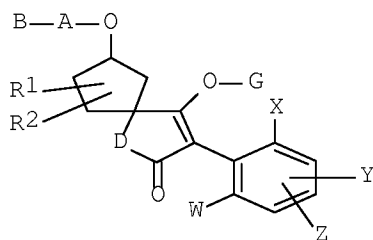


L4 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2007:702811 CAPLUS Full-text  
 DOCUMENT NUMBER: 147:118127  
 TITLE: Preparation of 3'-alkoxyspirocyclopentyl substituted  
 tetramic and tetronic acids as insecticides and  
 herbicides  
 INVENTOR(S): Fischer, Reiner; Lehr, Stefan; Feucht, Dieter;  
 Franken, Eva-Maria; Malsam, Olga; Bojack, Guido;  
 Arnold, Christian; Hills, Martin Jeffrey; Kehne,  
 Heinz; Rosinger, Christopher Hugh  
 PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany  
 SOURCE: Ger. Offen., 93pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

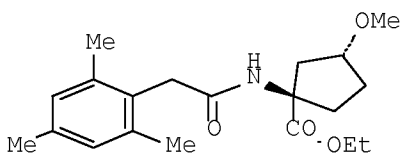
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005059891	A1	20070628	DE 2005-102005059891	20051215
AU 2006331050	A1	20070705	AU 2006-331050	20061211
CA 2633525	A1	20070705	CA 2006-2633525	20061211
WO 2007073856	A2	20070705	WO 2006-EP11911	20061211
WO 2007073856	A3	20071115		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
EP 1966135	A2	20080910	EP 2006-840967	20061211
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
IN 2008DN04944	A	20080808	IN 2008-DN4944	20080609
MX 2008007562	A	20080625	MX 2008-7562	20080611
KR 2008083660	A	20080918	KR 2008-716924	20080711
CN 101336232	A	20081231	CN 2006-80052410	20080806
PRIORITY APPLN. INFO.:			DE 2005-102005059891A	20051215

OTHER SOURCE(S):  
GI

MARPAT 147:118127



I



II

AB Title compds. [I; W = H, (halo)alkyl, alkenyl, alkynyl, etc.; X = halo, alkenyl, alkynyl, alkoxy, etc.; Y = H, halo, (halo)alkyl, alkenyl, alkynyl, alkoxy, CN, etc.; Z = H, halo, (halo)alkyl, CN, (halo)alkoxy; A = (substituted) alkylene, (hetero)cycloalkyl; B = H, (substituted) alkyl, alkenyl, alkoxy, etc.; or A = bond and B = H; D = NH, O; Q1 = H, (substituted) alkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, etc.; Q2 = H, alkyl; or Q1Q2 = (substituted) 3-6 membered (hetero)cyclyl; G = CH2COR1, CH2C(:L)MR2, CH2SO2R3, etc.; R1 = (substituted) alkyl, alkenyl, alkoxyalkyl, etc.; R2 = (substituted) alkyl, alkenyl, alkoxyalkyl, etc.; R3 = (substituted) alkyl, alkoxy, alkylamino, etc. L, M = O, S], were prepd. Thus, Me3COK in dimethylacetamide was heated at 100.degree. followed by portion-wise treatment with II (prepn. given) in dimethylacetamide to give after 2 h stirring at 100.degree. 42% I (W, X = Me; Y = H, Z = 4-Me; D = NH; G = H; A = CH2; B = H; Q1, Q2 = H). The latter at 500 g/ha gave .gtoreq.80% kill of Myzus persicae on Brassica pekinensis.

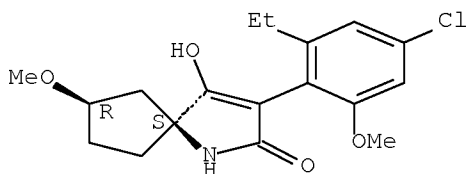
IT 942614-06-4P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(prepn. of alkoxySpirocyclopentyl substituted tetramic and tetronic acids as insecticides and herbicides)

RN 942614-06-4 CAPLUS

CN 1-Azaspiro[4.4]non-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-7-methoxy-, (5R,7S)-rel- (CA INDEX NAME)

Relative stereochemistry.



IT 942614-05-3P 942614-09-7P 942614-10-0P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

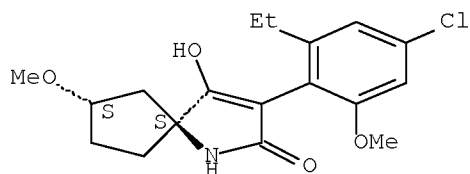


(prepn. of alkoxy Spirocyclopentyl substituted tetramic and tetronic acids as insecticides and herbicides)

RN 942614-05-3 CAPLUS

CN 1-Azaspiro[4.4]non-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-7-methoxy-, (5R,7R)-rel- (CA INDEX NAME)

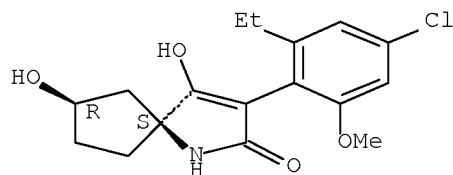
Relative stereochemistry.



RN 942614-09-7 CAPLUS

CN 1-Azaspiro[4.4]non-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4,7-dihydroxy-, (5R,7S)-rel- (CA INDEX NAME)

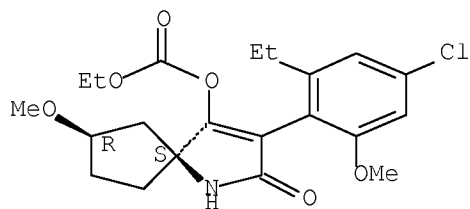
Relative stereochemistry.



RN 942614-10-0 CAPLUS

CN Carbonic acid, (5R,7S)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-7-methoxy-2-oxo-1-azaspiro[4.4]non-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



L4 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:670565 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 147:66051

TITLE: Enhancement of the herbicidal activity of phenyl-substituted cyclic ketoenols by ammonium salts

INVENTOR(S): Fischer, Reiner; Lehr, Stefan; Feucht, Dieter; Bickers, Udo; Huff, Hans Philipp; Hacker, Erwin;

PATENT ASSIGNEE(S): Suessmann, Rainer  
 SOURCE: Bayer Cropscience A.-G., Germany  
 PCT Int. Appl., 121pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007068427	A2	20070621	WO 2006-EP11910	20061211
WO 2007068427	A3	20080619		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
DE 102005059471	A1	20070712	DE 2005-102005059471	20051213
AU 2006326299	A1	20070621	AU 2006-326299	20061211
CA 2633448	A1	20070621	CA 2006-2633448	20061211
EP 1962590	A2	20080903	EP 2006-829500	20061211
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
IN 2008DN04760	A	20080815	IN 2008-DN4760	20080603
MX 2008007473	A	20080620	MX 2008-7473	20080610
KR 2008078890	A	20080828	KR 2008-716930	20080711
CN 101365334	A	20090211	CN 2006-80052458	20080806
PRIORITY APPLN. INFO.:			DE 2005-102005059471A	20051213
			WO 2006-EP11910	W 20061211

OTHER SOURCE(S): MARPAT 147:66051

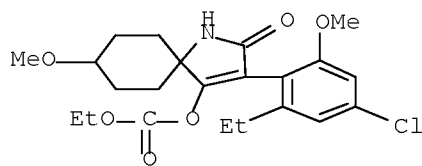
AB The herbicidal activity of known fatty-acid-biosynthesis-inhibiting phenyl-substituted cyclic ketoenols (Markush given) is enhanced by the addn. of ammonium and/or phosphonium salts and, optionally, penetration promoters.

IT 876176-42-0

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (herbicide with enhanced activity)

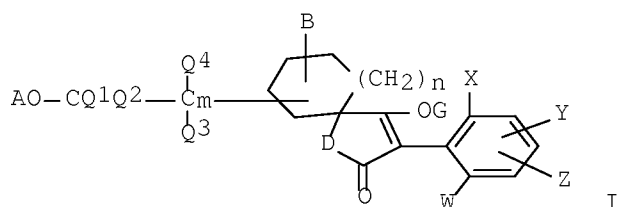
RN 876176-42-0 CAPLUS

CN Carbonic acid, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



L4 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2007:486207 CAPLUS Full-text  
 DOCUMENT NUMBER: 146:456840  
 TITLE: Preparation of alkoxyalkyl spirocyclic tetramic acids  
 and tetronic acids as fungicides, herbicides and  
 insecticides  
 INVENTOR(S): Fischer, Reiner; Gaertzen, Oliver; Lehr, Stefan;  
 Feucht, Dieter; Malsam, Olga; Drewes, Mark Wilhelm;  
 Franken, Eva-Maria; Arnold, Christian; Auler, Thomas;  
 Hills, Martin Jeffrey; Kehne, Heinz; Rosinger, Chris  
 Hugh; Bretschneider, Thomas; Bojack, Guido; Dittgen,  
 Jan  
 PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany  
 SOURCE: PCT Int. Appl., 211pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007048545	A2	20070503	WO 2006-EP10130	20061020
WO 2007048545	A3	20070712		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
DE 102005051325	A1	20070503	DE 2005-102005051325	20051027
AU 2006308203	A1	20070503	AU 2006-308203	20061020
CA 2627240	A1	20070503	CA 2006-2627240	20061020
EP 1943218	A2	20080716	EP 2006-840920	20061020
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
JP 2009513588	T	20090402	JP 2008-536978	20061020
IN 2008DN03240	A	20080704	IN 2008-DN3240	20080421
MX 2008005292	A	20080507	MX 2008-5292	20080423
KR 2008065670	A	20080714	KR 2008-712511	20080526
CN 101346351	A	20090114	CN 2006-80049305	20080626
PRIORITY APPLN. INFO.:			DE 2005-102005051325A	20051027
			WO 2006-EP10130	W 20061020
OTHER SOURCE(S):	MARPAT 146:456840			
GI				



AB The invention relates to the prepn. of alkoxyalkyl spirocyclic tetramic acids and tetronic acids I [W = H, (halo)alkyl, alkenyl, alkynyl, halo, (halo)alkoxy or cyano; X = H, halo, alkyl, (halo)alkyl, (halo)alkoxy, alkenyl, alkynyl, alkoxy, alkoxyalkoxy, cyano; Y = H, halo, (halo)alkyl, (halo)alkoxy, cyano, (un)substituted Ph or heteroaryl; Z = H, halo, (halo)alkyl, (halo)alkoxy, cyano or alkoxy; A = h, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, etc.; B = H alkyl or alkoxy; D = NH or O; Q1, Q2, Q3, Q4 = H or alkyl; AOCQ1 = (un)substituted ring; m = 0, 1 or 2; n = 0 or 1; G =H, C(O)R1, etc.; R1 = haloalkyl, cyanoalkyl, haloalkenyl, cyanoalkenyl, etc.] are prepd. as herbicides, fungicides and insecticides. A large no.of safeneers are given for the herbicidal use of I.

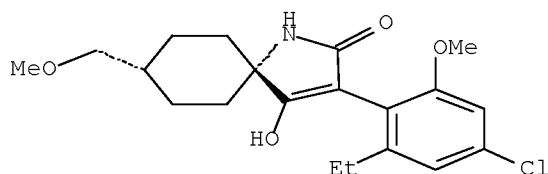
IT 934819-07-5P 934819-17-7P 934819-57-5P  
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 934819-75-7P 934819-76-8P 934819-78-0P  
 934819-80-4P 934819-82-6P 934819-90-6P  
 934819-92-8P 934819-94-0P 934819-98-4P  
 934820-02-7P 934820-20-9P 934820-21-0P  
 934820-24-3P 934820-25-4P 934820-32-3P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. as fungicide, herbicide and insecticide)

RN 934819-07-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-(methoxymethyl)-, cis- (CA INDEX NAME)

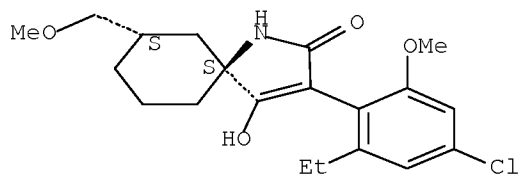
Relative stereochemistry.



RN 934819-17-7 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-7-(methoxymethyl)-, (5R,7R)-rel- (CA INDEX NAME)

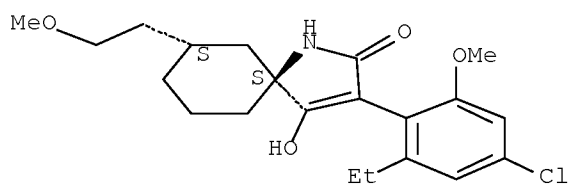
Relative stereochemistry.



RN 934819-57-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-7-(2-methoxyethyl)-, (5R,7R)-rel- (CA INDEX NAME)

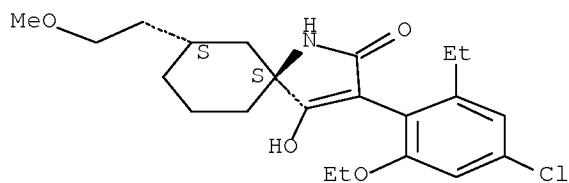
Relative stereochemistry.



RN 934819-59-7 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-7-(2-methoxyethyl)-, (5R,7R)-rel- (CA INDEX NAME)

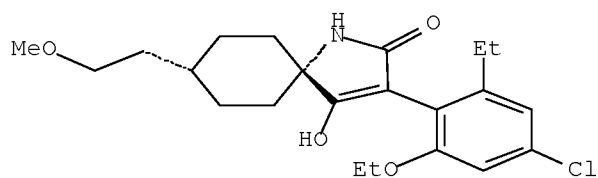
Relative stereochemistry.



RN 934819-61-1 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-(2-methoxyethyl)-, cis- (CA INDEX NAME)

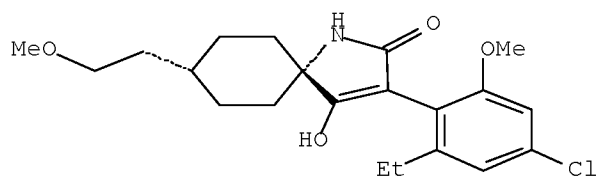
Relative stereochemistry.



RN 934819-62-2 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-(2-methoxyethyl)-, cis- (CA INDEX NAME)

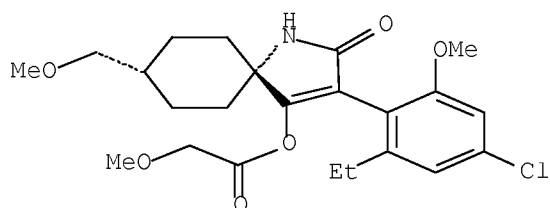
Relative stereochemistry.



RN 934819-75-7 CAPLUS

CN Acetic acid, 2-methoxy-, cis-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

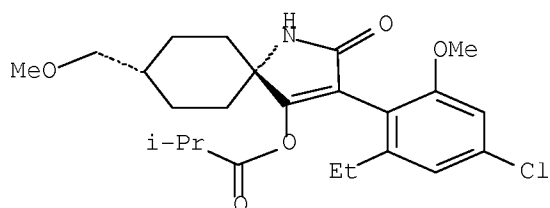
Relative stereochemistry.



RN 934819-76-8 CAPLUS

CN Propanoic acid, 2-methyl-, cis-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

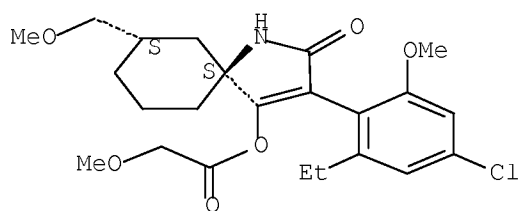
Relative stereochemistry.



RN 934819-78-0 CAPLUS

CN Acetic acid, 2-methoxy-, (5R,7R)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-7-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

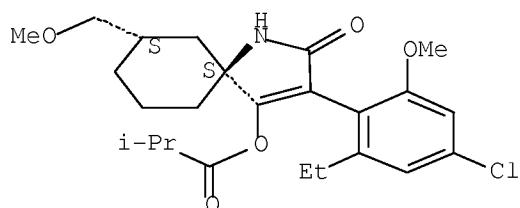
Relative stereochemistry.



RN 934819-80-4 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-7-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

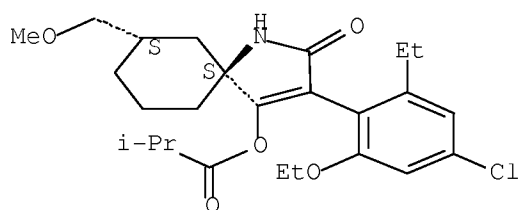
Relative stereochemistry.



RN 934819-82-6 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-3-(4-chloro-2-ethoxy-6-ethylphenyl)-7-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

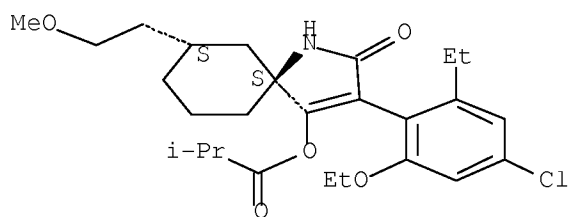
Relative stereochemistry.



RN 934819-90-6 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-3-(4-chloro-2-ethoxy-6-ethylphenyl)-7-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

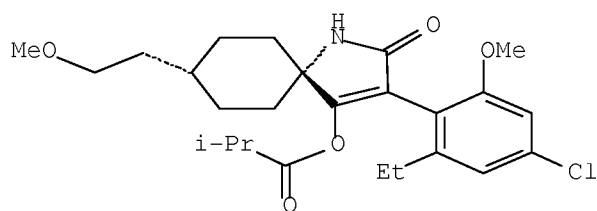
Relative stereochemistry.



RN 934819-92-8 CAPLUS

CN Propanoic acid, 2-methyl-, cis-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

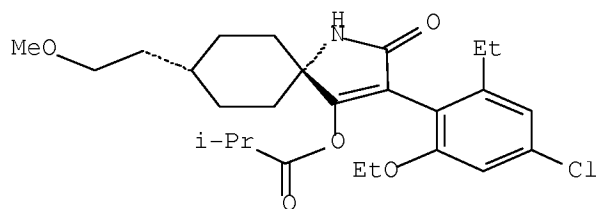
Relative stereochemistry.



RN 934819-94-0 CAPLUS

CN Propanoic acid, 2-methyl-, cis-3-(4-chloro-2-ethoxy-6-ethylphenyl)-8-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.

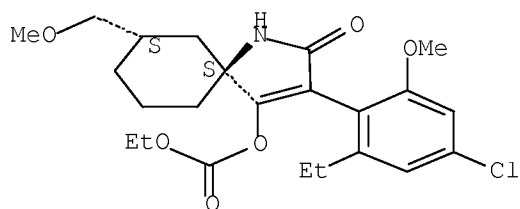


RN 934819-98-4 CAPLUS

CN Carbonic acid, (5R,7R)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-7-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.

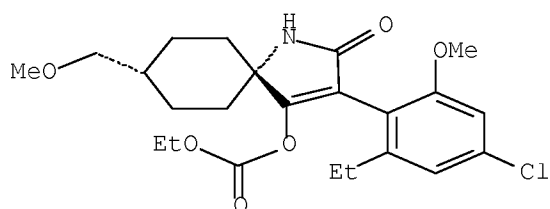




RN 934820-02-7 CAPLUS

CN Carbonic acid, cis-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

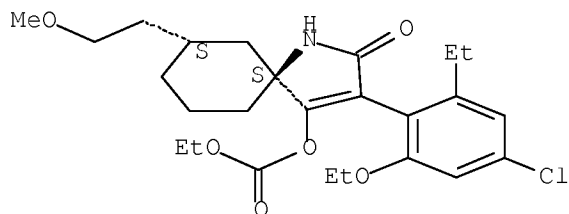
Relative stereochemistry.



RN 934820-20-9 CAPLUS

CN Carbonic acid, (5R,7R)-3-(4-chloro-2-ethoxy-6-ethylphenyl)-7-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

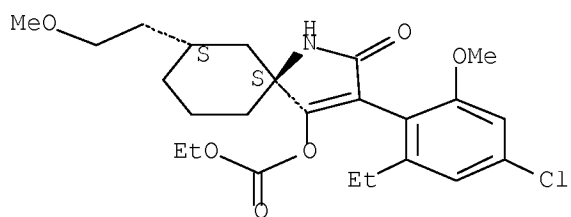
Relative stereochemistry.



RN 934820-21-0 CAPLUS

CN Carbonic acid, (5R,7R)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-7-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

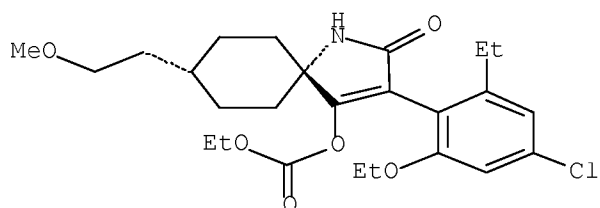
Relative stereochemistry.



RN 934820-24-3 CAPLUS

CN Carbonic acid, (5.alpha.,8.alpha.)-3-(4-chloro-2-ethoxy-6-ethylphenyl)-8-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

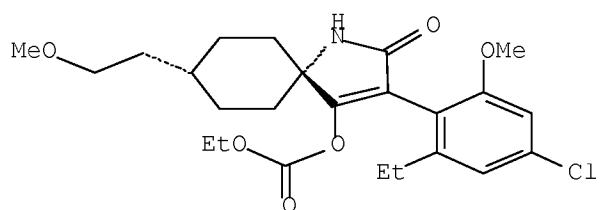
Relative stereochemistry.



RN 934820-25-4 CAPLUS

CN Carbonic acid, (5.alpha.,8.alpha.)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

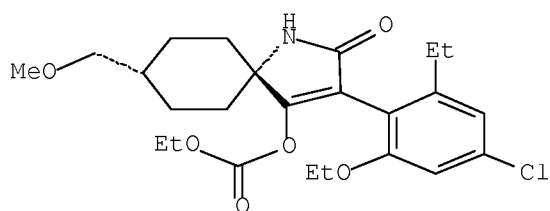
Relative stereochemistry.



RN 934820-32-3 CAPLUS

CN Carbonic acid, (5.alpha.,8.alpha.)-3-(4-chloro-2-ethoxy-6-ethylphenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

Relative stereochemistry.



IT 934821-96-2 934822-04-5 934822-05-6  
934822-07-8

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(safened herbicidal compn.)

RN 934821-96-2 CAPLUS

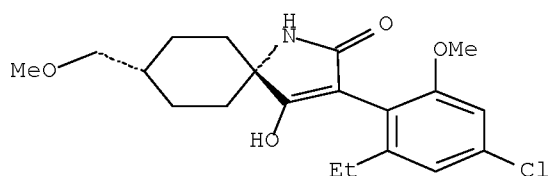
CN 1H-Pyrazole-3,5-dicarboxylic acid,  
1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, mixt. with  
cis-3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-(methoxymethyl)-1-  
azaspiro[4.5]dec-3-en-2-one (CA INDEX NAME)

CM 1

CRN 934819-07-5

CMF C20 H26 Cl N O4

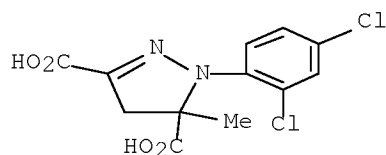
Relative stereochemistry.



CM 2

CRN 135591-00-3

CMF C12 H10 Cl2 N2 O4



RN 934822-04-5 CAPLUS

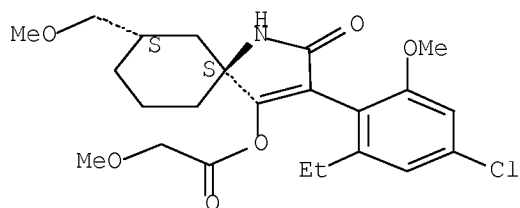
CN 1H-Pyrazole-3,5-dicarboxylic acid,  
1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, mixt. with  
rel-(5R,7R)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-7-(methoxymethyl)-2-oxo-1-  
azaspiro[4.5]dec-3-en-4-yl 2-methoxyacetate (CA INDEX NAME)

CM 1

CRN 934819-78-0

CMF C23 H30 Cl N O6

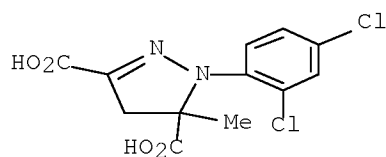
Relative stereochemistry.



CM 2

CRN 135591-00-3

CMF C12 H10 Cl2 N2 O4



RN 934822-05-6 CAPLUS

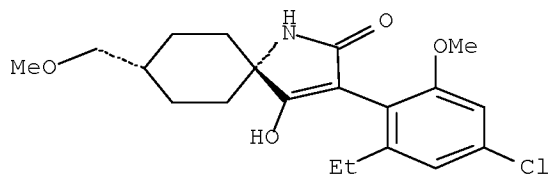
CN Benzamide, N-[[4-[(cyclopropylamino)carbonyl]phenyl]sulfonyl]-2-methoxy-,  
mixt. with cis-3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-  
(methoxymethyl)-1-azaspiro[4.5]dec-3-en-2-one (CA INDEX NAME)

CM 1

CRN 934819-07-5

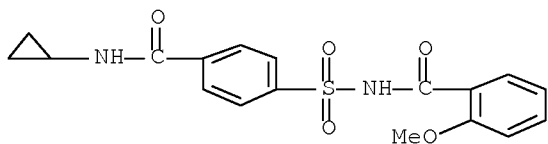
CMF C20 H26 Cl N O4

Relative stereochemistry.



CM 2

CRN 221667-31-8  
CMF C18 H18 N2 O5 S

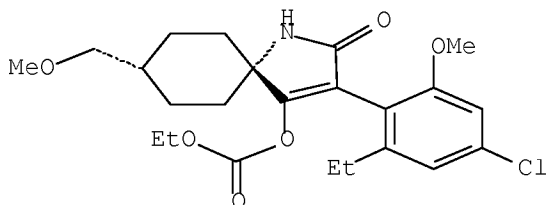


RN 934822-07-8 CAPLUS  
CN Carbonic acid, cis-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-(methoxymethyl)-  
2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, mixt. with  
N-[[4-[(cyclopropylamino)carbonyl]phenyl]sulfonyl]-2-methoxybenzamide (CA  
INDEX NAME)

CM 1

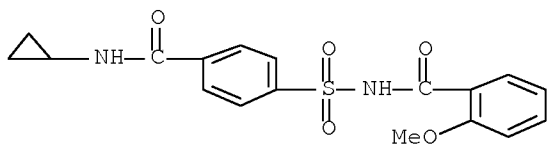
CRN 934820-02-7  
CMF C23 H30 Cl N O6

Relative stereochemistry.



CM 2

CRN 221667-31-8  
CMF C18 H18 N2 O5 S



L4 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2006:190359 CAPLUS [Full-text](#)  
DOCUMENT NUMBER: 144:227945  
TITLE: Herbicidal compositions comprising ketoenols

INVENTOR(S): Huff, Hans Philipp; Hacker, Erwin; Bojack, Guido;  
 FISCHER, Reiner; Feucht, Dieter; Lehr, Stefan  
 PATENT ASSIGNEE(S): Bayer Cropscience G.m.b.H., Germany  
 SOURCE: Ger. Offen., 31 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102004041529	A1	20060302	DE 2004-102004041529	20040827
AU 2005279428	A1	20060309	AU 2005-279428	20050820
CA 2577945	A1	20060309	CA 2005-2577945	20050820
WO 2006024411	A2	20060309	WO 2005-EP9017	20050820
WO 2006024411	A3	20060518		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1784075	A2	20070516	EP 2005-774784	20050820
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CN 101010006	A	20070801	CN 2005-80028863	20050820
JP 2008510752	T	20080410	JP 2007-528707	20050820
BR 2005014720	A	20080624	BR 2005-14720	20050820
IN 2007DN00562	A	20070817	IN 2007-DN562	20070122
MX 2007002244	A	20070504	MX 2007-2244	20070223
KR 2007047821	A	20070507	KR 2007-705458	20070308
US 20080167188	A1	20080710	US 2007-574301	20071106
PRIORITY APPLN. INFO.:			DE 2004-102004041529A	20040827
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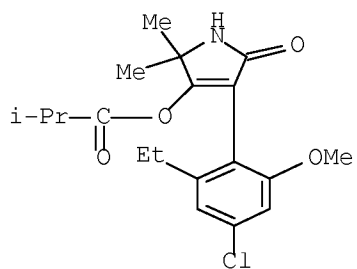
AB Herbicidal compns. comprise any of 16 ketoenols and any of a very large no. of known herbicides.

IT 760210-02-4D, mixts. contg. 876176-38-4D, mixts. contg.  
 876176-39-5D, mixts. contg. 876176-40-8D, mixts. contg.  
 876176-41-9D, mixts. contg. 876176-42-0D, mixts. contg.  
 876176-43-1D, mixts. contg. 876176-44-2D, mixts. contg.  
 876176-45-3D, mixts. contg. 876176-46-4D, mixts. contg.  
 876176-48-6D, mixts. contg. 876176-49-7D, mixts. contg.  
 876176-50-0D, mixts. contg. 876176-52-2D, mixts. contg.  
 876176-53-3D, mixts. contg.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (herbicidal compns.)

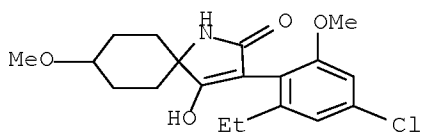
RN 760210-02-4 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(4-chloro-2-ethyl-6-methoxyphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



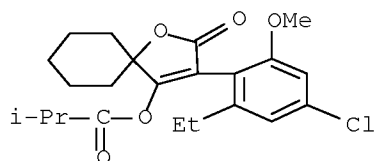
RN 876176-38-4 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-methoxy- (CA INDEX NAME)



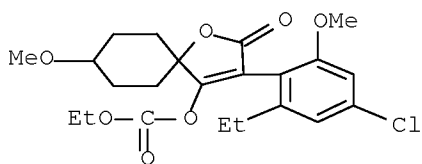
RN 876176-39-5 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



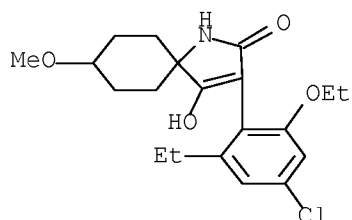
RN 876176-40-8 CAPLUS

CN Carbonic acid, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methoxy-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



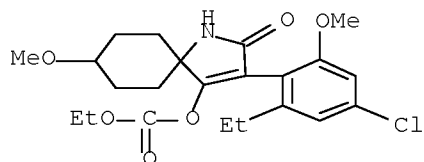
RN 876176-41-9 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-8-methoxy- (CA INDEX NAME)



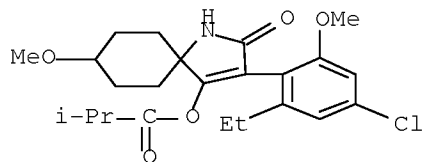
RN 876176-42-0 CAPLUS

CN Carbonic acid, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



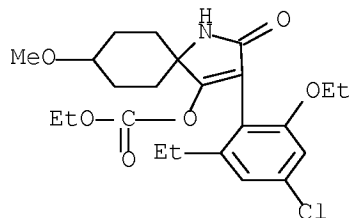
RN 876176-43-1 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 876176-44-2 CAPLUS

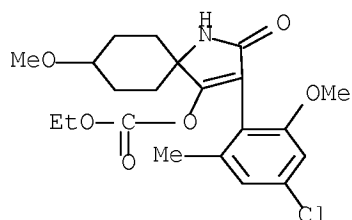
CN Carbonic acid, 3-(4-chloro-2-ethoxy-6-ethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)





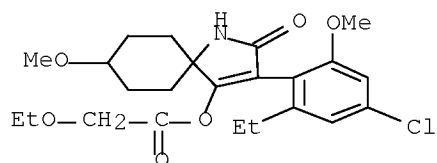
RN 876176-45-3 CAPLUS

CN Carbonic acid, 3-(4-chloro-2-methoxy-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 876176-46-4 CAPLUS

CN Acetic acid, 2-ethoxy-, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



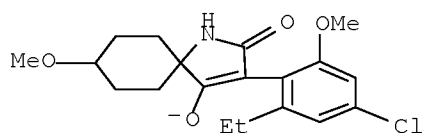
RN 876176-48-6 CAPLUS

CN 1-Hexanaminium, N,N,N-trihexyl-, salt with 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one (1:1) (CA INDEX NAME)

CM 1

CRN 876176-47-5

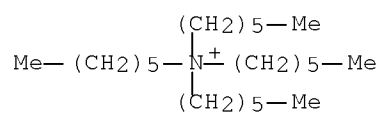
CMF C19 H23 Cl N O4



CM 2

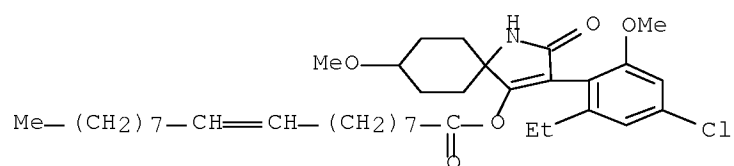
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CMF C24 H52 N



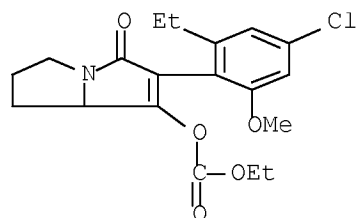
RN 876176-49-7 CAPLUS

CN 9-Octadecenoic acid, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



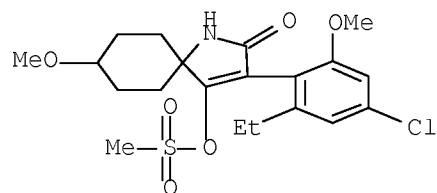
RN 876176-50-0 CAPLUS

CN Carbonic acid, 6-(4-chloro-2-ethyl-6-methoxyphenyl)-2,3,5,7a-tetrahydro-5-oxo-1H-pyrrolizin-7-yl ethyl ester (CA INDEX NAME)



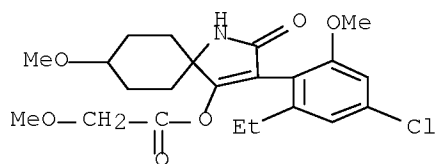
RN 876176-52-2 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methoxy-4-[(methylsulfonyl)oxy]- (CA INDEX NAME)



RN 876176-53-3 CAPLUS

CN Acetic acid, 2-methoxy-, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



L4 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2006:15861 CAPLUS Full-text  
DOCUMENT NUMBER: 144:108201  
TITLE: Preparation of 3-alkoxylspirotetramic acids and related compounds as pesticides  
INVENTOR(S): Fischer, Reiner; Gaertzen, Oliver; Lehr, Stefan; Bretschneider, Thomas; Feucht, Dieter; Malsam, Olga; Arnold, Christian; Auler, Thomas; Hills, Martin; Jeffrey; Kehne, Heinz; Rosinger, Chris; De; De  
PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany  
SOURCE: PCT Int. Appl., 239 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

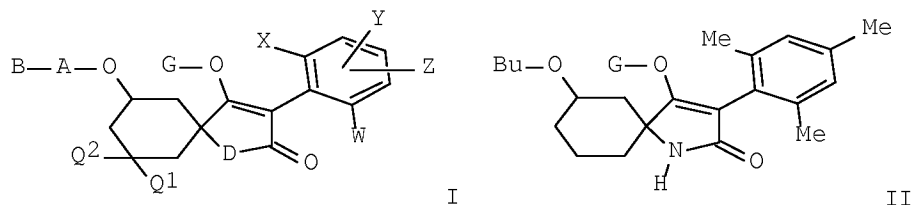
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006000355	A1	20060105	WO 2005-EP6588	20050618
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
DE 102004030753	A1	20060119	DE 2004-102004030753	20040625
AU 2005256426	A1	20060105	AU 2005-256426	20050618
CA 2572141	A1	20060105	CA 2005-2572141	20050618
EP 1761490	A1	20070314	EP 2005-754755	20050618
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 101006056	A	20070725	CN 2005-80028500	20050618
BR 2005011071	A	20071127	BR 2005-11071	20050618
JP 2008503521	T	20080207	JP 2007-517166	20050618
IN 2006DN07760	A	20070817	IN 2006-DN7760	20061220
MX 2006015186	A	20080911	MX 2006-15186	20061220
KR 2007035045	A	20070329	KR 2007-701626	20070123

US 20090029858  
PRIORITY APPLN. INFO.:

A1 20090129

US 2007-630246 20071009  
DE 2004-102004030753A 20040625  
WO 2005-EP6588 W 20050618

OTHER SOURCE(S): MARPAT 144:108201  
GI



AB Title compds. I [W = H, alkyl, halo, etc.; X = halo, alkyl, alkoxy, etc.; Y = 4-position with H, halo, alkoxy, etc.; Z = H with provisos; D = NH, O; Q1 = H, alkyl, alkoxy, etc.; Q2 = H, alkyl; G = COR1, SO2R3, etc.; R1 = alkyl, alkenyl, alkoxyalkyl, etc.; R3 = alkyl, alkoxy, alkylamino, etc.; A = alkandiyl (sic) with provisos; B = H, alkyl, alkenyl, etc.] were prepd. For example, O-acylation of alc. II (G = H) with 2-methylpropanoyl chloride afforded ester II (G = COCH(CH3)2) in 94% yield. In *Myzus persicae* protection assays at 100 g/ha, 82-examples of compds. I exhibited >90% protection after 5 days.

IT 872844-64-9P 872844-65-0P 872844-66-1P  
872844-67-2P 872844-68-3P 872844-91-2P  
872844-92-3P 872845-68-6P 872845-69-7P  
872845-70-0P 872845-71-1P 872845-72-2P

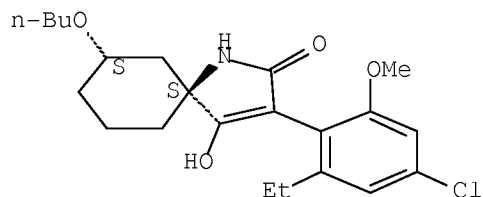
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 3-alkoxylspirotetramic acids and related compds. as pesticides)

RN 872844-64-9 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 7-butoxy-3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

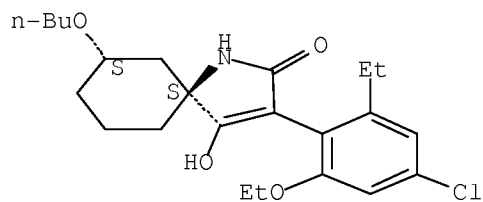
Relative stereochemistry.



RN 872844-65-0 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 7-butoxy-3-(4-chloro-2-ethoxy-6-ethylphenyl)-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

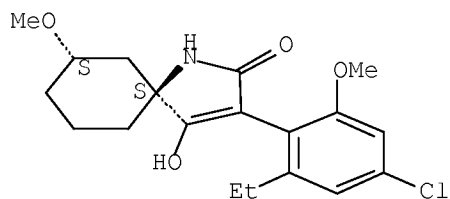
Relative stereochemistry.



RN 872844-66-1 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-7-methoxy-, (5R,7R)-rel- (CA INDEX NAME)

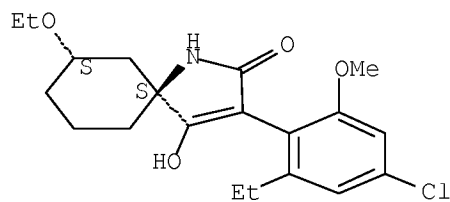
Relative stereochemistry.



RN 872844-67-2 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-7-ethoxy-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

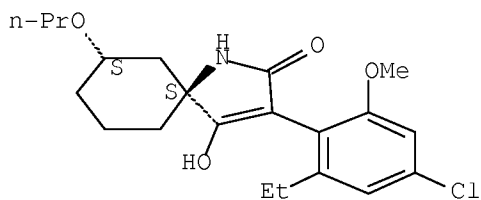
Relative stereochemistry.



RN 872844-68-3 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-7-propoxy-, (5R,7R)-rel- (CA INDEX NAME)

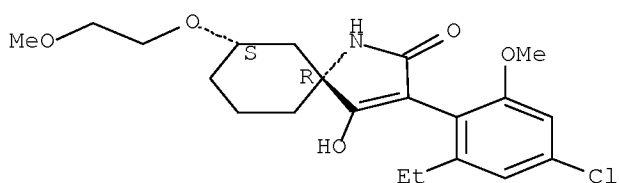
Relative stereochemistry.



RN 872844-91-2 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-7-(2-methoxyethoxy)-, (5R,7S)-rel- (CA INDEX NAME)

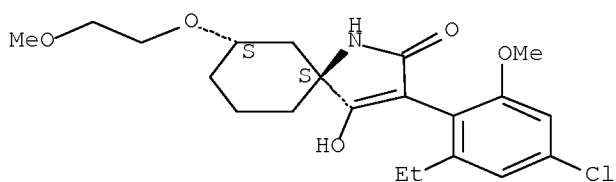
Relative stereochemistry.



RN 872844-92-3 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-7-(2-methoxyethoxy)-, (5R,7R)-rel- (CA INDEX NAME)

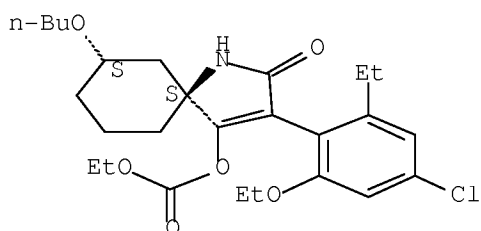
Relative stereochemistry.



RN 872845-68-6 CAPLUS

CN Carbonic acid, (5R,7R)-7-butoxy-3-(4-chloro-2-ethoxy-6-ethylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

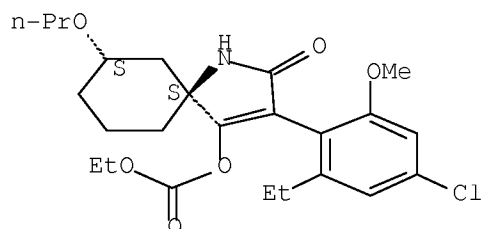
Relative stereochemistry.



RN 872845-69-7 CAPLUS

CN Carbonic acid, (5R,7R)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-2-oxo-7-propoxy-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

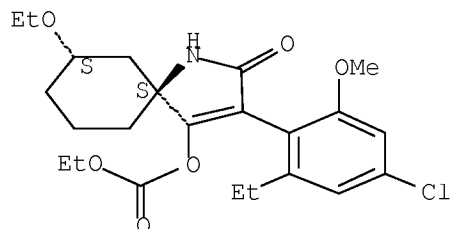
Relative stereochemistry.



RN 872845-70-0 CAPLUS

CN Carbonic acid, (5R,7R)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-7-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

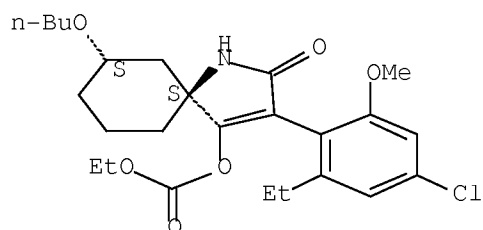
Relative stereochemistry.



RN 872845-71-1 CAPLUS

CN Carbonic acid, (5R,7R)-7-butoxy-3-(4-chloro-2-ethyl-6-methoxyphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

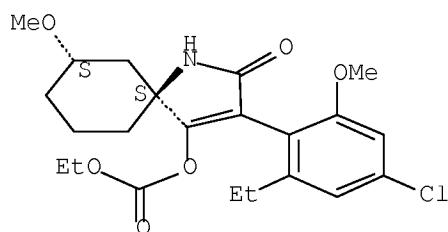
Relative stereochemistry.



RN 872845-72-2 CAPLUS

CN Carbonic acid, (5R,7R)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-7-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:778560 CAPLUS Full-text

DOCUMENT NUMBER: 141:277483

TITLE: Preparation of 2,4,6-trisubstituted phenyl cyclic keto-enols as herbicides and pesticides

INVENTOR(S): Fischer, Reiner; Kunz, Klaus; Lehr, Stefan; Ruther, Michael; Schneider, Udo; Dollinger, Markus; Drewes, Mark Wilhelm; Feucht, Dieter; Konze, Joerg; Wachendorff-Neumann, Ulrike; Bojack, Guido; Auler, Thomas; Hills, Martin; Erdelen, Christoph

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: Ger. Offen., 103 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

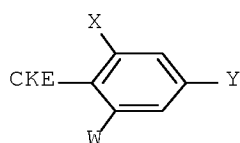
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10311300	A1	20040923	DE 2003-10311300	20030314
AU 2004220445	A1	20040923	AU 2004-220445	20040302
CA 2518620	A1	20040923	CA 2004-2518620	20040302
WO 2004080962	A1	20040923	WO 2004-EP2053	20040302
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1606254	A1	20051221	EP 2004-716217	20040302
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK			
BR 2004008378	A	20060321	BR 2004-8378	20040302

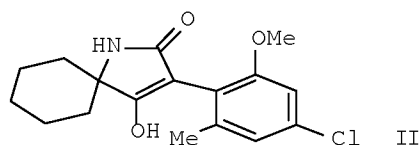


CN 1787994	A	20060614	CN 2004-80013040	20040302
JP 2006520338	T	20060907	JP 2006-504495	20040302
CN 101195599	A	20080611	CN 2007-10301095	20040302
RU 2353615	C2	20090427	RU 2005-131728	20040302
IN 2004DE00427	A	20090403	IN 2004-DE427	20040312
ZA 2005007279	A	20070228	ZA 2005-7279	20050909
US 20070015664	A1	20070118	US 2006-549074	20060221
IN 2007DE01447	A	20090424	IN 2007-DE1447	20070709
IN 2007DE02738	A	20080801	IN 2007-DE2738	20071227
PRIORITY APPLN. INFO.:			DE 2003-10311300	A 20030314
			CN 2004-80013040	A3 20040302
			WO 2004-EP2053	W 20040302
			IN 2004-DE427	A3 20040312

OTHER SOURCE(S): MARPAT 141:277483  
GI



I



II

AB Substituted benzenes I [W = alkoxy; X = alkyl; Y = halogen; CKE = substituted heterocyclic or carbocyclic keto-enol] were prepd. for use as insecticides, acaricides, nematocides, and herbicides. Thus, 3-chloro-5-methylphenol was etherified with allyl bromide, followed by Claisen rearrangement to give 2-allyl-5-chloro-3-methylanisole which was oxidized in two steps to 5-chloro-2-methoxy-6-methylphenylacetic acid. This acid was amidated with Me 1-amino-4-methyl-1-cyclohexanecarboxylate and cyclized with KOCMe<sub>3</sub> to give the spiropyrrole II. At 250 g/ha II gave 100% inhibition of, e.g., *Avena fatua* while leaving sugar beet undamaged. II was also active against *Aphis fabae*, *Meloidogyne*, *Myzus persicae*, *Nephotettix cincticeps*, and others.

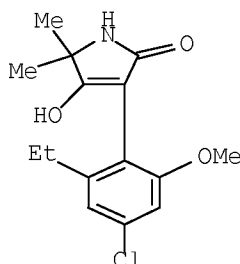
IT 760210-00-2F

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of 2,4,6-trisubstituted Ph cyclic keto-enols as herbicides and pesticides)

RN 760210-00-2 CAPLUS

CN 2H-Pyrrol-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



IT 760209-96-9P 760209-97-0P 760209-98-1P  
760209-99-2P 760210-01-3P

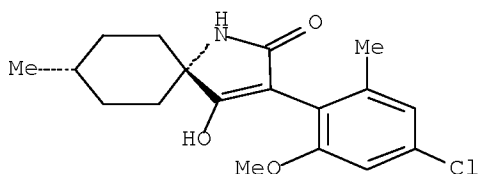
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 2,4,6-trisubstituted Ph cyclic keto-enols as herbicides and pesticides)

RN 760209-96-9 CAPLUS

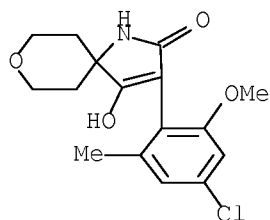
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-methoxy-6-methylphenyl)-4-hydroxy-8-methyl-, (5.alpha.,8.alpha.)- (CA INDEX NAME)

Relative stereochemistry.



RN 760209-97-0 CAPLUS

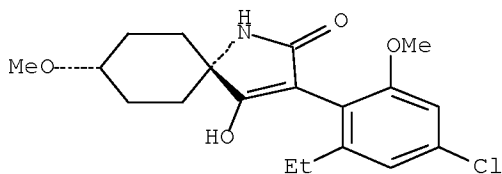
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-methoxy-6-methylphenyl)-4-hydroxy- (CA INDEX NAME)



RN 760209-98-1 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy-8-methoxy-, (5.alpha.,8.alpha.)- (CA INDEX NAME)

Relative stereochemistry.

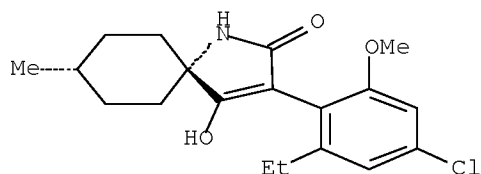


RN 760209-99-2 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-

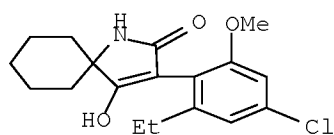
hydroxy-8-methyl-, (5.alpha.,8.alpha.)- (CA INDEX NAME)

Relative stereochemistry.



RN 760210-01-3 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-4-hydroxy- (CA INDEX NAME)

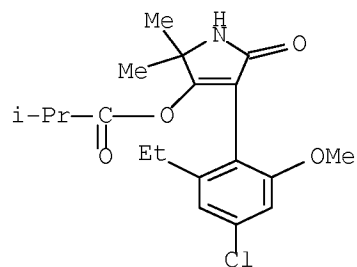


IT 760210-02-4P 760210-03-5P 760210-04-6P  
760210-05-7P 760210-06-8P 760210-07-9P  
760210-08-0P 760210-09-1P 760210-10-4P  
760210-26-2P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of 2,4,6-trisubstituted Ph cyclic keto-enols as herbicides and pesticides)

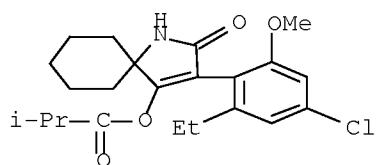
RN 760210-02-4 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(4-chloro-2-ethyl-6-methoxyphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 760210-03-5 CAPLUS

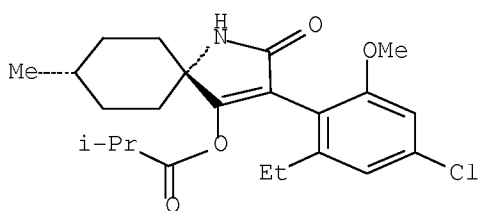
CN Propanoic acid, 2-methyl-, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 760210-04-6 CAPLUS

CN Propanoic acid, 2-methyl-, (5.alpha.,8.alpha.)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

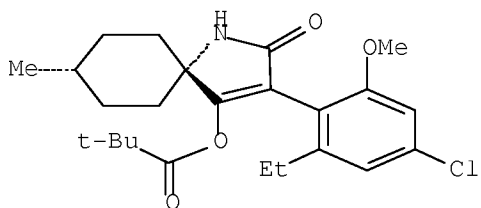
Relative stereochemistry.



RN 760210-05-7 CAPLUS

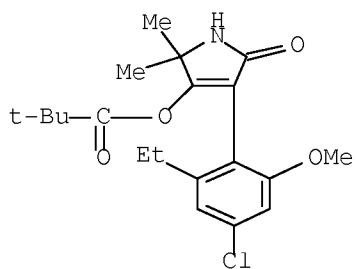
CN Propanoic acid, 2,2-dimethyl-, (5.alpha.,8.alpha.)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



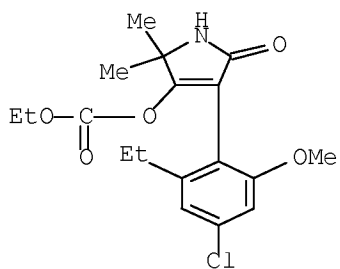
RN 760210-06-8 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 4-(4-chloro-2-ethyl-6-methoxyphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



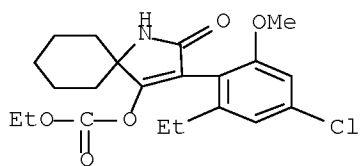
RN 760210-07-9 CAPLUS

CN Carbonic acid, 4-(4-chloro-2-ethyl-6-methoxyphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



RN 760210-08-0 CAPLUS

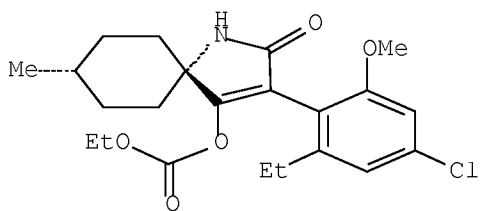
CN Carbonic acid, 3-(4-chloro-2-ethyl-6-methoxyphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 760210-09-1 CAPLUS

CN Carbonic acid, cis-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

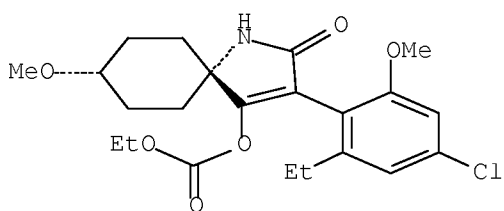
Relative stereochemistry.



RN 760210-10-4 CAPLUS

CN Carbonic acid, cis-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

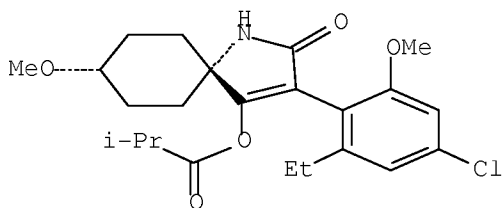
Relative stereochemistry.



RN 760210-26-2 CAPLUS

CN Propanoic acid, 2-methyl-, (5.alpha.,8.alpha.)-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



L4 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1997:679056 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 127:318875

ORIGINAL REFERENCE NO.: 127:62493a,62496a

TITLE: Arylheterocyclic keto enols as pesticides and herbicides

INVENTOR(S): Lieb, Volker; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Graff, Alan; Schneider, Udo

PATENT ASSIGNEE(S): Bayer A.-G., Germany; Lieb, Volker; Hagemann, Hermann;

Widdig, Arno; Ruther, Michael; Fischer, Reiner;  
 Bretschneider, Thomas; Erdelen, Christoph;  
 Wachendorff-Neumann, Ulrike; et al.

SOURCE: PCT Int. Appl., 192 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

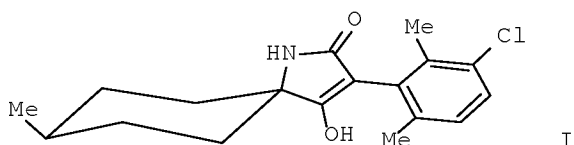
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9736868	A1	19971009	WO 1997-EP1426	19970321
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, IL, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 19649665	A1	19971009	DE 1996-19649665	19961129
IN 1997DE00661	A	20050311	IN 1997-DE661	19970317
CA 2250417	A1	19971009	CA 1997-2250417	19970321
AU 9722900	A	19971022	AU 1997-22900	19970321
AU 725852	B2	20001019		
EP 891330	A1	19990120	EP 1997-915409	19970321
EP 891330	B1	20060308		
R: BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, PT				
CN 1215390	A	19990428	CN 1997-193592	19970321
BR 9708425	A	19990803	BR 1997-8425	19970321
JP 2000507564	T	20000620	JP 1997-534875	19970321
JP 4153040	B2	20080917		
TR 9801990	T2	20000621	TR 1998-1990	19970321
IL 126357	A	20031031	IL 1997-126357	19970321
CN 1535956	A	20041013	CN 2004-10034295	19970321
CN 1631879	A	20050629	CN 2004-10095691	19970321
ES 2259804	T3	20061016	ES 1997-915409	19970321
EP 1721522	A2	20061115	EP 2005-26674	19970321
EP 1721522	A3	20070103		
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
KR 2000004994	A	20000125	KR 1998-707606	19980925
US 6140358	A	20001031	US 1998-155637	19980929
US 20010004629	A1	20010621	US 2000-550105	20000414
US 6271190	B2	20010807		
US 6388123	B1	20020514	US 2001-871611	20010601
US 6486343	B1	20021126	US 2002-74351	20020212

PRIORITY APPLN. INFO.:

DE 1996-19613171	A	19960402
DE 1996-19649665	A	19961129
EP 1997-915409	A3	19970321
WO 1997-EP1426	W	19970321
US 1998-155637	A3	19980929
US 2000-550105	A3	20000414
US 2001-871611	A3	20010601

OTHER SOURCE(S): MARPAT 127:318875

GI



AB Title compds. were prepd. Thus, 3,2,6-Cl(Me)2C6H2CH2CO2H was treated with Me cis-1-amino-4-methylcyclohexanecarboxylate and cyclized with base to give the pyrrolinone I. At 0.1% I gave 100% control of Nephotettix cincticeps on rice.

IT 197709-79-8P 197709-80-1P 197710-01-3P  
197710-16-0P

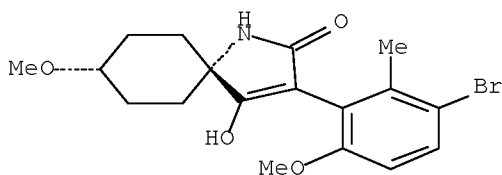
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of arylheterocyclic keto enols as insecticides and acaricides)

RN 197709-79-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(3-bromo-6-methoxy-2-methylphenyl)-4-hydroxy-8-methoxy-, (5.alpha.,8.alpha.)- (CA INDEX NAME)

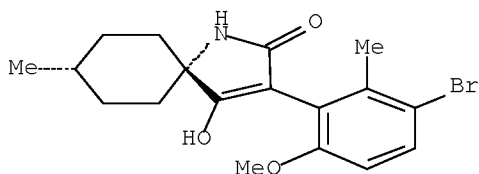
Relative stereochemistry.



RN 197709-80-1 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(3-bromo-6-methoxy-2-methylphenyl)-4-hydroxy-8-methyl-, (5.alpha.,8.alpha.)- (CA INDEX NAME)

Relative stereochemistry.

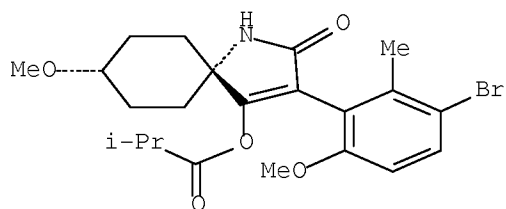


RN 197710-01-3 CAPLUS

CN Propanoic acid, 2-methyl-, (5.alpha.,8.alpha.)-3-(3-bromo-6-methoxy-2-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.

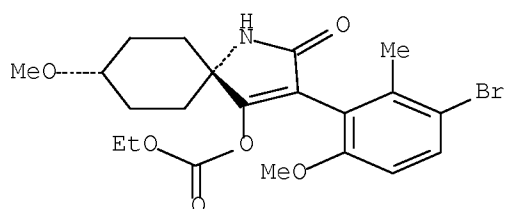




RN 197710-16-0 CAPLUS

CN Carbonic acid, 3-(3-bromo-6-methoxy-2-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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Executing the logoff script...

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	113.80	300.12
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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CA SUBSCRIBER PRICE	-16.40	-16.40

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 18:05:56 ON 14 MAY 2009